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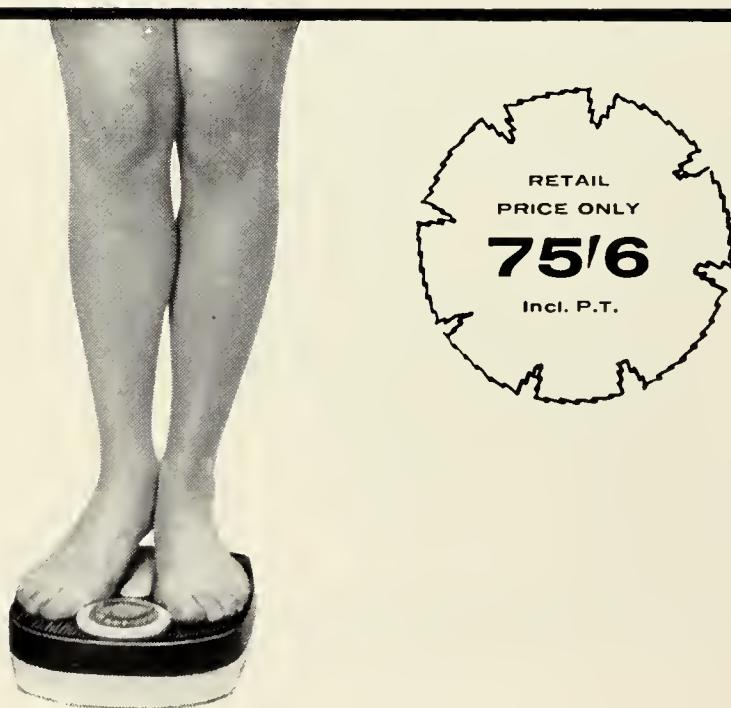
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 175

March 18, 1961

No. 4231

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The
CHEMIST AND DRUGGIST



Volume 175

MARCH 18, 1961

No. 4231

Drugs in Disposable Syringes NOW ALLOWED ON EC10

THE Ministry of Health has informed the Joint Pricing Committees for England and Wales that payment may now be allowed for the presentations of drugs in disposable hypodermic syringes listed below:—

Abbojet syringe, Erythrocin—I.M. (Abbott Laboratories, Ltd.).

Ampin injectors (Cuxson, Gerrard & Co., Ltd.).

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Tubunic ampoule syringe (Roche Products, Ltd.).

Advice to Doctors

STATEMENT ON PRESCRIBING

MR. E. POWELL (Minister of Health) announced in the House of Commons on March 15 that the Standing Committee on the Classification of Proprietary Preparations had been asked to consider if they could help doctors in prescribing by giving more guidance on proprietary preparations. "The Committee has now reported," said the Minister. "The Committee advises that while there should continue to be no absolute restriction on the prescribing of any drug which the doctor considers necessary for the treatment of his patient, he need not normally go outside the drugs and preparations . . . in the British Pharmacopoeia. The British

Pharmacopoeial Codex and the British National Formulary, together with the drugs that the Committee classify as 'N' (new drugs of proved value not yet standard) and 'P' (drugs for which there is *prima facie* evidence of therapeutic value, but where the Committee want further evidence before firm classification)." The report goes on to advise that a doctor who prescribes other preparations may be liable to be called on to justify his action if the cost of his prescribing is being formally investigated. The report will be published, and in consultation with the medical profession will be brought to the attention of all doctors. He went on, "The Secretary for Scotland and I are aware that the pharmaceutical industry may be apprehensive of the effect of this advice on its future progress and development, but we are sure that any such apprehension would be ill founded. Many standard preparations are, and will no doubt continue to be, available only in proprietary form, and cost little more or no more in proprietary than in unbranded form. This, together with cate-

gories 'N' and 'P', and the individual doctors professional discretion, will continue to provide full scope for the products of the industry's research and development to find their reward."

London N.H.S. Policy

EXECUTIVE COUNCIL STATEMENT

A STATEMENT of policy has been issued by the London Executive Council on the future of the Health Service in the London area in view of the recommendations of the Royal Commission on Local Government in Greater London. The following points are made: The London County Council should remain the Local Health Authority. If, nevertheless, any new boroughs are to become Local Health Authorities their areas and populations would need to be very much larger than those proposed by the Royal Commission. If any change in local government is made there should be an adequate standstill period from the date when the new local authorities are set up before any changes are made in Executive Councils. If any rearrangement becomes necessary the present London Executive Council should remain. In addition there should be a small number of Executive Councils in the surrounding areas.

Retail Sales

BOARD OF TRADE STATISTICS

RECENTLY issued Board of Trade figures show that sales of chemists'



A DRIVE-IN PHARMACY: A new pharmacy, the Town and Country Plaza Drug Store at Thiensville, Wis., U.S.A., opened by Mr. Joseph J. Malinske, jun., alongside a car park, has been planned so as to enable a motorist to drive up and hand in a prescription through a window without leaving the car. The dispensing department is to one side of the window and immediately inside the entrance to the pharmacy. From the remainder of the shop it is separated by shoulder-high walls. The pharmacy is described as being "on low ranch-style lines, with oak and split rock exterior."

Pictures by courtesy, N.A.R.D. Journal, Chicago.

goods by independent retailers were 35.9 per cent. lower in January 1961 than in December 1960 and 6.3 per cent. higher than in January 1960. Multiple retailers' sales were 54.2 per cent. lower in January compared with December 1960 and 8.1 per cent. higher than in January 1960. Sales by Co-operative societies were 40.1 per cent. lower than in December 1960 and 6.9 per cent. higher than in January 1960. The figures do not allow for receipts under the National Health Service.

Request to Chancellor

"CHANGE THE FISCAL YEAR-END"

THE United Commercial Travellers' Association have sent a pre-Budget memorandum to the Chancellor of the

Exchequer. On purchase tax the Association calls for a reduction in the existing rates, which are regarded as a burden on trade, and for a removal of the "all too many anomalies appertaining to the scales." A suggestion is also made that the fiscal year-end (and the Budget date) be changed to avoid the present "dead period" between January and April, which is described as being "disastrous in trading circles." On fuel tax, a call is made for a reduction of sixpence per gall. with the object of benefiting all members of the community by reducing the cost of goods and facilities used by industry, commerce, and the consumer public, whilst at the same time reducing the daily cost of travelling by a large portion of the working population.

CONSUMER TESTS

Baby pants and moisture creams

THE March issue of *Which?*, monthly journal of the Consumers' Association, Ltd., reports on baby pants and moisture creams. For evaluation purposes the pants tested were divided into three price ranges — under 2s.; between 2s. and 4s.; and over 4s. medium size. Of the brands examined, seventeen were made from PVC, one from nylon film, and one from rubber. User tests for durability were carried out with babies and in the laboratory. In the laboratory test the pants were subjected, 100 times, to firm contact for 1½-2 hours with nappies soaked in synthetic urine. That was followed by gentle washing in soapy water, then rinsing and drip drying, or according to the manufacturers' instructions. Tear strengths were measured after twenty, forty, sixty, eighty and 100 treatments, and the pants further examined for stiffening, tearing and for loosened stitching, etc. For the user tests, each of the nineteen brands was tried out on ten babies. The pants were worn by day only, and washed by hand on alternate days. Note was taken of fitting, comfort, chafing, stiffening, and tearing, the tests were followed by a final re-examination in the laboratory. The results showed that, although most of the brands survived the laboratory treatment, on eighteen-month-old babies only 50 per cent. survived thirty days' wear. It was concluded that the damage was caused by strain and friction caused by the active baby, rather than either contact with urine or washing. None of the higher priced brands of plastic pants was found distinctly better than others, and the Association's comment was "if you pay a high price you may be paying for looks, not serviceability." They also found that to boil pants that claimed to be boilable did not affect their wearing quality, though it made them look creased. On plastic pants welded seams and hems held better than sewn ones and, in general, pants with elastic had fewer disadvantages than press-stud fastened pants. Odours tended to cling to the rubber pants (Kleinert's Bunny) after washing, but not to PVC pants, but the rubber pants did not tend to harden like the plastic pants. The Kumfy Kiddy nylon film pants also did not harden. *Which?* suggests that "it would be of great service to mothers

if sizes could be standardised for all brands." As joint "best buys," the Association selected two brands Twinkel Prova and Binki, retailing at 1s. 3d. and 1s. 6d. respectively.

Moisture Creams

Which? found no chemical basis for choosing between the different moisture creams and lotions tested, or for distinguishing them sharply from other face creams not advertised as "moisturising." Any one, the Association states, would soften the skin. The number of creams and lotions advertised as "moisturising," analysed was fifteen. They ranged in price from nine-pence to 50s. per oz. Analysis showed that they contained about 40 to 80 per cent. of water, and like other types of face cream, were emulsions of oil, fat, or waxes. They did not contain any substances for increasing the actual moisture of the dermis or that might rejuvenate the skin. User tests showed that the estimated cost for thirty days' use ranged from fivepence to 6s. 11d. for the products tested. The most economical (Astral) was, however, not considered by the users to be of pleasing texture ("too greasy" or "too heavy"). The Association found no evidence that the expensive creams had any advantage over the medium-priced ones and chose as joint "best buys" Outdoor Girl non-greasy moisture cream (2s. 6d.), Gala Golden Moisture (8s. 6d.) and Boots Number Seven Satin Smooth (4s. 1d.). Astra and Nivea were stated to be "obviously very good buys." *Which?* also suggests that manufacturers "might pay more attention to matching the jar, bottle or tube, to the consistency of the product."

1961 Production Census

ARRANGEMENTS SIMILAR TO 1960

ARRANGEMENTS for the Census of Production to be taken in 1962 in respect of the year 1961 have now been settled. They will be on similar lines to the census now being taken in respect of the year 1960. Census returns will be required only from a sample of businesses employing twenty-five or more persons.

OVERSEAS NEWS

NEW ZEALAND

Medical Research Grant

THE Wellcome Trust has made a grant of £100,000 to Otago University, New Zealand, to build an Institute of Medical Research in Dunedin. Otago University has announced the creation of a special Chair of Research Medicine and that Professor Sir Horace Smirk will be the first holder.

KENYA

Pyrethrins Content Tests

TESTS conducted in Kenya by the Kenya Ministry of Agriculture's senior pyrethrum officer (Dr. Ulrich Kroll), show that variations in mean temperature and in rainfall can substantially affect the toxic pyrethrins content of pyrethrum flowers. It is important that the pyrethrum growing areas are sufficiently high to produce low mean temperatures and yet have a high rainfall. The pyrethrins content has been proved to rise gradually with the rainfall to reach a peak percentage with four inches of rain per month. The average pyrethrins content of flowers delivered to the Pyrethrum Board of Kenya is now 1.55 per cent.

IRISH BREVITIES

THE REPUBLIC

FIVE tons of cosmetics were flown from England to Dublin on March 9 and 10, to wholesalers who formerly obtained the products from Irish Pharmaceuticals, Ltd., whose premises at Mount Brown were destroyed by fire recently.

MR. D. W. P. Boyd, M.A., who was recently appointed director of the post-graduate Education Committee of the Council of the Pharmaceutical Society of Ireland, has been appointed a member of the advisory committee of the Institute for Industrial Research and Standards, to which has been assigned the task of drafting standard specifications for disinfectants, antiseptics, insecticides and rodenticides for household use.



DANCE COMMITTEE: Members of the Committee of the Associates' Section, Ulster Chemists' Association, who were responsible for the Section's recent dinner/dance: Messrs. J. H. Galbraith, D. Corbett, J. Webb, T. McAlpine, W. R. Davidson (convener, social subcommittee), R. J. Davidson (chairman, Associates' Committee), A. G. Newberry, W. T. Hunter, J. R. Fogarty, R. G. P. McMullan.

NEWS IN BRIEF

ALDERSHOT borough council has found no tenant for a shop reserved as a pharmacy on its North Town estate.

CHORLEY Brewster Sessions recently granted an off-licence for the sale of beer to Mr. R. P. Foster, M.P.S., from his pharmacy at Church Street, Adlington, Lancs.

THE Board of Trade is considering an application for the imposition of an anti-dumping duty on alkyl (dodecyl) benzene detergent alkylate imported from Italy.

SIX cameras worth about £50 were stolen by smash-and-grab thieves recently from the premises of Mr. A. M. Graham, M.P.S., 12 Bridge Street, Peterborough, Northants.

MR. T. R. Easton, 18 Copsewood Way, Bearsted, Maidstone, Kent, has been appointed secretary of the Pharmaceutical Committee for East Ham in place of Mr. D. F. Partridge who is moving to Leicester.

A TOP-FLOOR pharmaceutical warehouse at the premises of Raimes, Clark & Co., Ltd., Smith's Place, Leith, was destroyed by fire on March 3. Damage was assessed at £90,000. It is believed that the fire originated among surgical dressings.

THE legibility of Coventry doctors' prescriptions is being considered by the Local Medical Committee. Councillor R. Loosley has also asked the committee to consider the question of undecipherable writing on "sick notes."

To help businesses get the best value from their telephone system, the Post Office has produced a booklet "The Telephone in Business." It is intended mainly for managements, staffs and telephone operators of business houses, particularly those with private branch exchanges.

THE Ministry of Agriculture, Fisheries and Food has issued a reminder that, under the Diseases of Animals Act, 1950, the insides of lorries used for the transport of livestock must be washed, scrubbed or scoured, then disinfected with an approved disinfectant.

A NEW £28,000 research laboratory, to be known as the Wellcome Laboratory, was opened at Edinburgh City Hospital recently by Lord Piercy (chairman of the Wellcome Trust, which donated the money). The laboratory is to carry out research into respiratory diseases and virus infections.

VISITORS to Ilford House, 133 Oxford Street, London, W.1, are invited to participate in a competition "Spot the Sportsman," arranged as part of the current exhibition of sporting photographs. Sportsman cameras are offered as prizes. The exhibition is open until April 23; admission is free.

REVISED British Standards have been issued for a number of items including:—Density hydrometers and specific gravity hydrometers (B.S. 718:1960, price 10s.); studio spotlight lamps (B.S. 1075:1961, price 5s.); one mark pipettes (B.S. 1583:1961, price 4s.). Copies of the standards may be purchased from the British Standards Institute, 2 Park Street, London, W.1.

TOPICAL REFLECTIONS

By Xrayser

Parliamentary interference

In all the years I have spent in pharmacy—and they are now many—I have never been so incensed as during this past week. The latest of the many Ministers of Health who have come and gone in recent times—I had better name him, for if any should come across this paragraph in a year or two they might wonder which of the flickering procession held office at this time—Mr. Enoch Powell, has surely gone too far (p. 243). Asked by Mr. Oram what steps were proposed to ensure that a patient was not required to pay 2s. for a prescription for which the ordinary retail price was less than 2s., the Minister said: "I expect the chemist to sell such items at the retail price. Guidance has already been given to chemists by their professional organisation, and I am considering what further guidance, if any, is needed." (My professional organisation is the Pharmaceutical Society. I have heard nothing from them.) Until now, matters affecting the contractor chemist have been dealt with under the auspices of the National Pharmaceutical Union. But the reply of Mr. Powell to his questioner raises matters of professional principle—matters which concern the Pharmaceutical Society of Great Britain alone, whose voice is the voice of professional pharmacy in this country. The Society has shown a marked reluctance to take part in any question concerned with the Health Service, but there is involved here something which directly affects the professional attitude of the pharmacist, and a *fortissimo* chorus of protest must be raised. Unfortunately, when the statement was made there was not heard even the solo voice of Sir Hugh Linstead. It was surely to him that pharmacy should have looked to voice the professional aspects involved, for in his official position with the Society no one should be better informed. It is precisely for such an occasion as the former that Sir Hugh Linstead is at Westminster.

Remote and uninformed

Earlier in the proceedings, Miss E. Pitt (Parliamentary Secretary, Minister of Health) said that items under 2s. "which came readily to mind" were calamine lotion, zinc ointment, aspirin tablets and compound codeines. To treat an all-over price for a prescription, compounded of cost of ingredients, oncost, container cost and professional dispensing fee (not to mention the long course of training required to translate accurately the intentions of the prescriber) as equivalent to a retail sale shows just how remote is the conception of the functions of the pharmacist in the minds of the Members of Parliament who are, for the time being, the parliamentary representatives of the Ministry of Health. A well-informed member could so easily have corrected the misconception—but he did not. But that is not all.

Altering prescriptions

Mr. K. Robinson asked the Minister if a chemist was entitled to alter a prescription and to strike off an item if he could supply it over the counter for less than 2s. Mr. Enoch Powell replied: "Yes. The item is marked 'Not dispensed,' and the prescription form so marked is then returned to the Executive Council." The Pharmaceutical Society may think it politic to remind its members of Clause 15 of its statement upon Matters of Professional Conduct which states: "Prescriptions should not be discussed with patients or others in such a manner as to impair confidence in the prescriber." What other interpretation could be put upon a pharmacist looking at a prescription for tab. acid. acetylsalicyl. or ung. zinci oxid., and telling the doctor's patient that all that the doctor had prescribed was aspirin tablets or zinc ointment? And what right has the pharmacist to disclose such information, which the prescriber may have good reasons for keeping to himself? The Pharmaceutical Society and its members are deeply concerned with this. So also is the British Medical Association. Each organisation should inform the Minister that his "expectations" are totally unacceptable.

A RECRUITMENT SCHEME FOR PHARMACY

Help for organisers of careers displays

THE Pharmaceutical Society has produced attractive display material and literature aimed at interesting young people in taking up pharmacy as a career.

In view of the interest aroused by the publicity that is being given to Commonwealth Training Week (see p. 275) the issue is most timely, and secretaries of the Society's branches and hospital pharmacists who have been approached, or are intending, to stage displays for such purposes should make the fullest use of it.

A Set of Posters

Wisely, the designers of the material have made it suitable for use in a variety of likely circumstances. They have produced a central poster, size 30 x 40 in., two flanking posters each 30 x 20 in., and a banner or streamer (in two sheets) to weld the trio into a complete unit suitable for (a) display upon a wall where no other facilities are provided in the exhibition or (b) mounted on hardboard to form a hinged back-screen to a table top display. For the more ambitious type of exhibition in which a "shell" exhibition stand is provided to each exhibitor, the recommendation is to flank the 30 x 40 in. poster with two each of the 30 x 20 in. posters. A memorandum to branch secretaries sets out in detail the recommendations of the Society's Publicity Committee for each set of circumstances. In addition, there are available illustrated leaflets that may be handed out to inquirers at the stands, and each leaflet contains a coupon which the intending entrant fills and forwards to the Society's headquarters in order to receive a fuller (and more costly) booklet giving to those whose interest is more fully aroused by the leaflet the full information of what steps he or she

must take in order to qualify (the booklet is addressed to the inquirer and not to parents).

The sponsors of the Commonwealth Training Week have suggested to local authorities, youth-employment officers, Rotary clubs and other bodies that careers exhibitions should be organised on a local basis, and the Pharmaceutical Society is asking branch secretaries to take an active interest in any such exhibitions organised in their own areas. In those towns in which exhibition contractors are engaged to organise suitable exhibitions, and a charge is made to participants, branch secretaries are asked to send the relevant plans, rules and correspondence to Bloomsbury Square. They will be given advice immediately.

Branch Secretaries' Opportunity

The posters are in three colours on good paper and may be affixed to a back screen by map pins or with a paperhanger's paste. The set of posters is supplied free to branch secretaries. Applications should be addressed to the Society's Assistant Secretary, 17 Bloomsbury Square, London, W.C.1. It is suggested that no material other than hand-out career leaflets should be displayed on the table, and organisers should give an indication of the number of leaflets they require.

The head streamer reads "Pharmacists — Vital to National and World Health." A left-hand panel describes the debt the public owes to the pharmaceutical industry for discovering or developing about 90 per cent. of the life-saving drugs in use today, including penicillin and polio vaccine; and stresses the part pharmacists play in analytical control. The centre panel refers to the work of the 27,612 pharmacists who are engaged in providing

the curative and prophylactic medicines for the citizens of Britain, pointing out that more are needed in industry, in hospitals, in retail pharmacies and for teaching the pharmacists of the future. The right-hand panel points out, with suitable illustrations, that 18,500 qualified pharmacists engaged in retail pharmacy are responsible for the dispensing of 230 million prescriptions each year, their responsibilities including recognition of overdoses and incompatibilities and knowledge of the therapeutic action of drugs; and about 1,200 are in hospitals, where they are responsible for providing the medicines prescribed for more than four million in-patients and more than forty-one million out-patient attendances each year.

Persons intending to make use of the material are asked to send in their requests as soon as possible, though delivery cannot be made before the end of April.

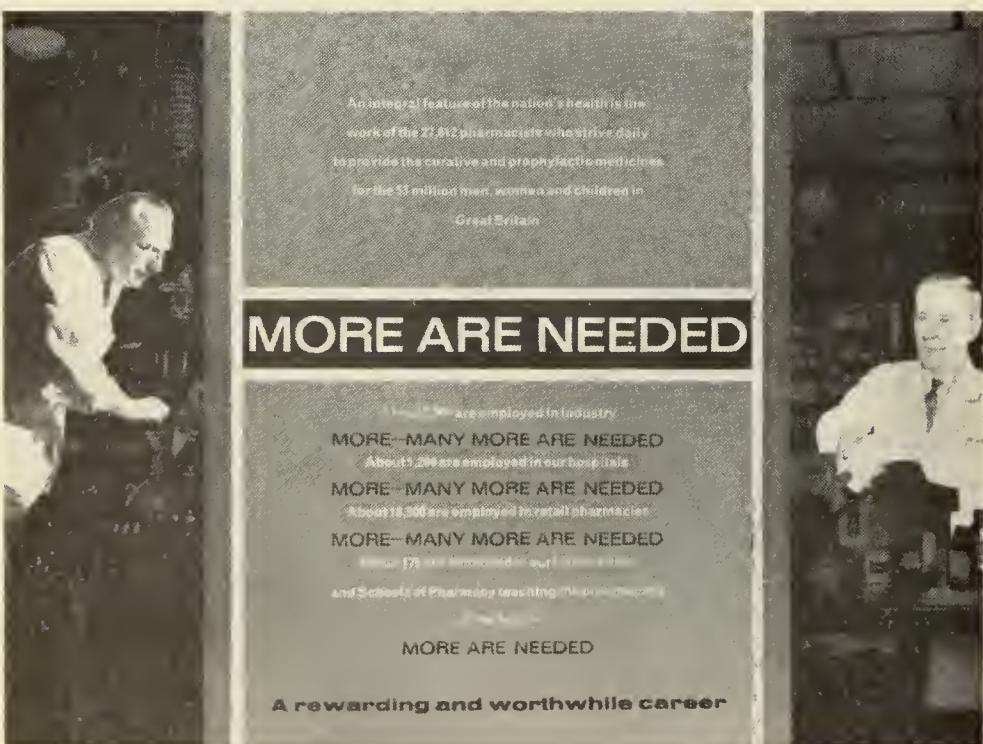
Questions Answered

The Publicity Committee has not overlooked that those who officer the displays at careers exhibitions may be asked all manner of awkward questions that can be difficult to answer on the spur of the moment. In a 16-p. booklet "Pharmacy as a Career: A Guide for Branch Advisers," they have collected typical questions asked at previous careers exhibitions or by members faced with inquirers and have provided the information on which answers may be based. The mark "Private and Confidential" on the booklet is at once a sign that the booklets, though the information they contain is not confidential, should not be handed to callers at the stand, and that the answers should not be memorised as word-for-word replies in all circumstances, but referred to only as guidance before being put in the adviser's own words according to the particular form of the inquiry and the personality of the inquirer. Just how difficult the questions can be is shown by citing only two of the ninety-three answered. "Can a boy who is colour-blind take up pharmacy?" "If I qualify as a pharmacist can I practise overseas?" An appendix deals with the Scottish requirements for entrance, and an index on p. 15 reinforces the point that the answers are for reference, not for memorising.

OVERSEAS VISITS

MR. J. R. MORRIS (managing director, Izal (Overseas), Ltd.), sets out on March 20 on an extensive overseas tour which will include the United States, Australia, New Zealand and South, Central and East Africa.

MR. JACK KLEIN (managing director, Max Factor, Hollywood and London (Sales), Ltd.), has left England by air for a business trip to New Delhi, Tokio, Bangkok, Hong Kong, Honolulu, Hollywood (the headquarters of the company) and New York. He will be returning to the United Kingdom towards the end of March.



Central poster of the display set. Half-width posters, each bearing four illustrations and short text go on either side and a head streamer embraces the three.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

EARL WALDEGRAVE, replying to a question by VISCOUNT ELIBANK in the House of Lords on March 9, said that the need for further research into the effects of the use of toxic chemicals in agriculture was being examined by a research study group, and that the Government would welcome full information from naturalists or other persons about suspected poisonings of birds or mammals by toxic chemicals.

Cruelty to Animals Act

MR. R. MATTHEWS asked the Secretary of State for the Home Department whether he would take steps to improve the administration of the Cruelty to Animals Act, 1876, in connection with experiments on animals which were expected to give pain. MR. R. A. BUTLER (Home Secretary), in a written reply on February 23, stated that closest attention was being given to the subject and he was not convinced that any changes were needed.

Replying to a number of questions by MR. J. B. EDEN, on March 1, MR. R. A. BUTLER (Home Secretary) stated that none of the inspectors appointed under the Act were qualified veterinary surgeons. The inspectors' function was to ensure by frequent visits, and in other ways, that licensees understood and fulfilled their responsibilities under the Act. Mr. Butler did not think that a discussion with a deputation from the Royal Society for the Prevention of Cruelty to Animals was necessary, but if the Society wished to make further representations he would consider them.

Customs Procedures

MR. SELWYN LLOYD (Chancellor of the Exchequer) told MR. N. RIDLEY on February 21 that he was not aware of any special difficulties requiring the appointment of a Royal Commission to investigate Customs procedures.

Price Maintenance

Replying to questions by MR. F. NOEL-BAKER on February 21, MR. NIALL MACPHERSON (Parliamentary Secretary to the Board of Trade) stated he could not say when a decision would be reached concerning resale price maintenance.

Venereal Disease

MR. ENOCH POWELL in a written reply to SIR MALCOLM STODDART-SCOTT said that during 1959 there were 116,462 new cases of venereal disease reported at the National Health Service clinics in England and Wales, and 7,342 in Scotland.

Exhibitions and Trade Weeks

MR. F. J. ERROLL announced on February 22 that a proposal was to be laid before Parliament seeking approval to increase next year's vote provision for trade weeks, etc., by some £200,000 to a total of £530,000. The extra money was to be used to encourage, in co-operation with Trade Associations, more firms to take part in overseas trade fairs.

Insecticides

The annual sales of insecticides with choline-esterase inhibitor properties were not available, stated MR. W. M. F. VANE (Joint Parliamentary Secretary, Ministry of Agriculture) in a written reply to DR. D. JOHNSON, on March 1.

Special Hospitals

MR. K. ROBINSON was informed, in a written answer on March 8, that the report of the working party on the special hospitals would be published in April.

Patents Act

MR. L. A. PAVITT asked the Minister of Health on March 8 to what extent Hospital Management Committees and Regional Hospital Boards had received delegated authority enabling them to act under the provisions of Section 46 of the Patents Act without any further reference to the Minister. MR. E. POWELL (Minister of Health) said he was advised that the question of such authorisation did not arise.

Decimal Coinage

During a discussion on March 9, MR. A. CROSLAND asked if time could be granted for a debate on the motion urging the Government to introduce a decimal system of coinage at an early date. MR. R. A. BUTLER (Home Secretary) replied that he would take note of the request but could not give any undertaking.

Expiry Dates on Containers

SIR G. WILLS asked the Minister of Health whether, in order to prevent unnecessary waste, he would give instructions that, in appropriate cases, when prescriptions were made up, the duration of the time during which the contents would be effectively usable should be stated on the container. MISS E. PITTS in a written reply on March 10 stated the Minister had no power to give such instructions.

N.H.S. Bill

The National Health Service Contributions Bill was further considered in Committee, under the Guillotine procedure, on March 13. MR. K. ROBINSON, on March 14, unsuccessfully moved a prayer to annul the National Health Service (Pay Bed Accommodation in Hospitals) Regulations 1961.

National Clinical Research Centre

MR. ENOCH POWELL (Minister of Health), in a written answer on March 13, announced Government plans for linking the proposed District Hospital at Northwick Park, Middlesex, with a new National Clinical Research Centre to be established on the same site by the Medical Research Council.

Standard and Proprietary Drugs

LORD BALNIEL asked what had been the cost to the Health Service of prescriptions specifying drugs by standard names and of prescriptions specifying drugs by proprietary names in the past

five years. MR. POWELL in a written reply on March 13 stated—The total cost to the Exchequer of prescriptions dispensed by chemists in England and Wales was estimated as follows:

	Prescriptions specifying drugs by standard names	Prescriptions specifying drugs by proprietary names
	£ million	£ million
1956	16.6	30.8
1957	13.2	34.8
1958	13.9	38.6
1959	13.9	45.2
1960	14.1	50.7

The Minister also added the note that rather less than half, by value of the drugs prescribed by standard names in 1959 and 1960 were available only as proprietaries. The proportion for earlier years was not known.

Common Cold

MR. DENZIL FREETH (Parliamentary Secretary for Science) told MR. A. NEAVE on March 14, that the Common Cold Research Unit of the Medical Research Council had made an important advance in the study of the common cold with the successful isolation and growth of certain cold viruses, that had opened the way for rational investigations into methods of prevention and treatment.

Closing Hours

MR. W. PROUDFOOT asked the Home Secretary, on March 14, if he would introduce legislation to ensure that the closing hours of retail shops of varying trades should coincide, particularly on the late closing day. MR. R. A. BUTLER said he had no such legislation in mind.

Medical Research

MR. DENZIL FREETH told MR. A. NEAVE, on March 14, that the National Institute for Medical Research had successfully developed an electronic capsule or "radio pill" to investigate physical and chemical changes in the gastro-intestinal tract. Radioactive oxygen and carbon dioxide have been used to investigate the ventilation and blood flow in the lungs of pulmonary and cardiac patients.

BUSINESS CHANGES

RUDDUCK & CO., LTD., shopfitters are transferring their showrooms to 70 City Road, London, E.C.

INNOXA (ENGLAND), LTD., are transferring their head office to their new factory, Innoxa House, Essex Road, London, N.1, on March 20.

NEVILLE BROWN & CO., LTD., have transferred to Electrin House, 93 New Cavendish Street, London, W.1 (telephone unchanged): Langham 7161.

Appointments

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10, announce that Mr. C. E. Cherrington has been appointed area manager with responsibility for the North-west of England and Mr. L. N. Cooke area manager for the North East.

LEGAL REPORTS

Exultation of Flowers

A NUMBER of witnesses at Nairn sheriff court on March 8 declared that a preparation, Exultation of Flowers, had cured a diversity of ailments in humans and animals. They gave evidence for the defendants, Alick McInnes and Mrs. Elizabeth Bellhouse, Braeface, Auldearn, Nairnshire, who had pleaded not guilty to four charges brought under the Pharmacy and Medicines Act, 1941, and the Cancer Act, 1939 (see *C. & D.*, March 11, p. 243).

A witness who wore the Chelsea Pensioners' uniform said that twelve months ago he had taken Exultation of Flowers for cartilage trouble; he had not been afflicted since. Another witness, a farm consultant, spoke of a 15-year-old dog which was "getting younger in its ways" after being treated with the preparation. A building contractor said that taking the preparation had made an operation for prostate trouble unnecessary. "In a few days I began to feel better; by six months I was absolutely back to normal. I never bothered going back to the doctor. I don't need one now," he added. His wife told of benefits to her Persian cat and herself. A housewife said that the preparation, when administered to cyclamen plants produced bigger and better blooms. Her husband had found it helpful during an attack of influenza. Giving evidence, Mrs. Bellhouse, a former nurse at St. Thomas's Hospital, London, described how she held the heads of flowers in a stream to transfer their potency to the water. The "concentrated potency" was then bottled and stored, and later it was made into Exultation of Flowers by diluting it with 330 parts of water. If the preparation—evolved by her after experiments with plant-powers—had been discovered 100 years earlier, she said, modern drugs like penicillin and the sulphonamides group would now be unnecessary. Mrs. Bellhouse said she did not think that orthodox medicine could ever be "the complete answer" to illness. However she agreed with three analysts who had stated that Exultation of Flowers analysed as water: but it had also "certain curative qualities," which water did not have. The potencies had no physical form, but one should treat the patient's mental outlook and not organic disease. Mrs. Bellhouse said she did not know that the description she had given on the bottle contravened the Pharmacy and Medicines Act. When the hearing was continued the next day, Mrs. Bellhouse agreed that 150 bottles of Exultation of Flowers were sold weekly, making a total of 21,600 in the past three years. The price was 12s. a bottle. She denied under cross-examination that she had made a profit of 10s. a bottle. Regarding the suggestion that Exultation of Flowers should be given to a dying person or people who had been involved in serious accidents, Mrs. Bellhouse said that this was to restore harmony or balance. She denied that it was intended to indicate that the product would ward off death. Mrs. Bellhouse was asked by the sheriff whether

she thought that, to anyone bleeding to death after an accident, she would apply a tourniquet or Exultation of Flowers. She answered that she would apply Exultation of Flowers. It would stop the bleeding immediately.

DEATHS

AFFLECK.—On February 25, Mr. Claude William Affleck, M.P.S., Amroth, Shanklin Avenue, Billericay, Essex. Mr. Affleck qualified in 1910.

BARNS.—On February 3, Mr. John Harvey Barns, M.P.S., Harber, Stoke Fleming, Dartmouth, Devon. Mr. Barns qualified in 1920.

BELL.—On March 12, Mr. Robert Alfred Bell, M.P.S., 26 Prestwick Road, Ayr. Mr. Bell qualified in 1920.

CALVERT.—On February 7, Mr. Albert Calvert, M.P.S., 4 Naylor Buildings, Scholes, Cleckheaton, Yorks. Mr. Calvert qualified in 1921.

DALES.—On January 31, Mr. Edward Dales, F.P.S., 63 Caledon Road, Sherwood, Nottingham. Mr. Dales qualified in 1894.

DENNIS.—On February 17, Mr. Frank Pemberton Dennis, M.P.S., 195 College Road, Norwich, Norfolk, aged forty-six.

ELLIOTT.—On March 4, Dr. Thomas Renton Elliott, F.R.S., emeritus professor of medicine, University of London, aged eighty-three. Professor Elliott was one of the members of the Wellcome Trust nominated for "special experience of research in medicine and the allied sciences." The first to be named in Sir Henry Wellcome's will in that capacity was Sir Walter Morley Fletcher but Sir Walter died before the testator and the will named Professor Elliott for appointment in the event of such a vacancy. Professor Elliott served on the Trust from 1936 until 1955 when he decided not to accept further re-appointment.

GILCHRIST.—Recently, Mr. James Towers Gilchrist, M.P.S., 75 Market Street, Dalton-in-Furness, aged forty-five. Mr. Gilchrist was well known in Kirkby Stephen, where in 1937 he managed the business acquired by Mr. Charles J. Dixon, F.P.S., Penrith. Subsequently he left to take over a business in his native town of Dalton.

GORDON.—On March 7, Mr. James Hilston Gordon, M.P.S., Airntully, Ringford, Castle Douglas, aged seventy-seven. Mr. Gordon, who was the grandson of the founder of J. & D. Hilston, Lanark, became joint proprietor of the business in 1915. He retired in 1929 to take up farming. An illustrated article on the business was published in the *C. & D.*, May 14, 1938, p. 568.

MEREDITH.—On February 3, Mr. Edward Morgan Meredith, M.P.S., Ashdene, 87 Hollybush Road, Cyncoed, Cardiff. Mr. Meredith qualified in 1922.

MORRIS.—On February 20, Mrs. Phyllis Morris, M.P.S., "Gillercombe," Craig Walk, Windermere, Westmorland. Mrs. Morris qualified in 1933.

PRICE.—On February 28, Mr. Robert Edward Price, M.P.S., 72 High

Street, Rhyl. Mr. Price, a native of Rhyl, had been in business there for more than fifty years, his pharmacy was the oldest in Rhyl, first opened in 1834. In 1957 the business was formed into a limited company, Mr. Price's co-directors being his daughter Mrs. Owen D. Timothy and Mr. Alun Pugh Jones, F.P.S. Mr. Price studied pharmacy at Westminster College, London, and served his apprenticeship with the late Mr. G. R. Lawrence, Ph.C., Rhyl. He gained experience in London and Coventry before returning to his home town. The doyen of North Wales pharmacists, Mr. Price had a keen love of sport although religion claimed much of his time outside his business.

PULLEN.—Suddenly, after an apparent recovery from a severe illness on March 9, Mr. William Lelean Pullen, M.P.S., 369 Oxford Road, Reading, aged seventy-two. Mr. Pullen had been in business in Reading for nearly fifty years, first in Duke Street, and later in Oxford Road.

Mr. H. Williams writes:—In the passing of Mr. Pullen, Reading pharmacists have lost a great character and champion. He took an active part as chairman, secretary and member of the old Reading Chemists' Association which was in existence prior to the formation of the Reading Branch of the Society in 1925. He was a founder member of the branch committee and was chairman in 1928-29. Although at that time a faithful branch member, his greater interest lay in the National Pharmaceutical Union and the Local Pharmaceutical Committee. He was in his element collecting and collating pharmaceutical statistics, and he had the economics of pharmacy at his finger tips. To his successors he was a never failing source of facts. He served as secretary of the old Pharmaceutical Committee until its abolition in 1948 and was the first secretary of the Local Pharmaceutical Committee under the 1947 Act. He also served as a pharmacist member of the Executive Council until 1955 when he resigned. He was an individualist of the old school firmly believing in the right of anyone carrying on his business in his own way. The minutes book of the local N.P.U. branch and of the local Pharmaceutical Committee has on almost every page "Mr. Pullen proposed." He was not always successful in finding a seconder nor were his proposals always carried. But they were always original and caused a great deal of interest and controversy. Many, like myself, are thankful that we knew him and are grateful for his help.

SMITH.—At Victoria Infirmary, Glasgow, on March 5, Mr. Alexander Smith, M.P.S., 145 Sinclair Drive, Langside, Glasgow, S.2. Mr. Smith qualified during 1922.

VENTIN.—On February 25, Mr. Arthur Dudley Bevan Ventin, M.P.S., 54A Seven Sisters Road, Holloway, London, N.7. Mr. Ventin qualified in 1921.

N.H.S. ESTIMATES

1960-61

ROCHDALE.—Revised estimate. Pharmaceutical services increased by £11,000 to £158,000.

1961-62

WORCESTERSHIRE.—Total, £1,610,390; pharmaceutical services, £572,000.

NEW PRODUCTS AND PACKS

A New Small Size.—Granose Foods, Ltd., Stanborough Park, Watford, Herts, are accepting orders for a new small size of their cereal product Sunnybisk. The case quantity is thirty-six packets each containing two separate packs of five biscuits packed in heat-sealed wax bags.

A Week's Supply.—Metercal meal-in-a-glass liquid slimming diet is being made available in a 3½-lb. tin size. The tin holds a week's supply (twenty-eight meals) and is available in either chocolate or vanilla flavours. It represents a saving of 10s. per week against seven 8-oz. tins. Makers are Mead Johnson, Ltd., 10 Upper Grosvenor Street, W.1.

An Anticonvulsant.—Emeside, a new anticonvulsant for the control of petit-mal, has been launched by Laboratories for Applied Biology, Ltd., 91 Amhurst Park, London, N.16. Considerable reduction of attacks has been reported from 75 per cent. of a series of cases, with complete control in 25 per cent. after six months and 42 per cent. after two years. Tolerance has not been observed, and toxicity has been low. Emeside—chemically ethylmethylsuccinimide—is presented in glass jar of 100 250-mgm. capsules.

Thiopropazine.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, are making available a new speciality Majeptil brand thiopropazine methanesulphonate. The product is primarily of interest to psychiatrists in mental hospitals at which treatment will be instituted. Patients discharged on maintenance dosage may, however, be referred subsequently to their general practitioners, for whom tablets are available in packs of fifty and 250 1-mgm. tablets.

Bactericidal, Proteolytic and Detergent.—Pharmax, Ltd., Bexleyheath, Kent, are marketing a new speciality Bioteric, which they claim is "at last an efficient bactericidal, proteolytic and detergent preparation at an economic price for use in all hospitals and laboratories." Bioteric has been formulated to assist the rapid and efficient cleansing and disinfection of medical, surgical and laboratory equipment, and hospital linen, without the need for scrubbing, brushing or rubbing. It is a combination of a quaternary ammonium salt with a proteolytic enzyme in a detergent base, and is presented in a 2-kilo drum, with measure.

Sulphadimidine with Streptomycin.—The Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 24, announce the introduction of a new speciality, Orastrep, presented as tablets containing 0.25 gm. of streptomycin sulphate and 0.25 gm. of sulphadimidine per tablet, and as a suspension containing 0.5 gm. of streptomycin sulphate, 0.5 gm. of sulphadimidine and 1.5 gm. of light kaolin per 5-mil teaspoonful. The product is designed to offer a twofold attack against commonly occurring bacterial infections of the intestinal tract, including bacillary dysentery, infantile gastro-enteritis and bacterial food poisoning. In oral administration the product's streptomycin content is understood to provide a high concen-



tration within the gut, combating the causative pathogens while the sulphadimidine acts against any pathogens that have penetrated deeply into the intestinal wall. The light kaolin, included in the suspension for its adsorbent properties, assists in consolidating fluid faeces. Orastrep tablets are issued in bottles of twenty-five, 100 and 500 and Orastrep suspension in bottle of 50 mils. The product is subject to the Therapeutic Substances Act (Part II) and to Schedule 4B of the Poisons Rules.

Splints in Plastic.—After tests at the Royal National Orthopaedic Hospital, Brockley Hill, Stanmore, Middlesex, certain types of orthopaedic splints and appliances are now available in Vyon, a porous plastic made from high-



density polythene manufactured by Porous Plastics, Ltd., Dagenham Dock, Essex. The material is strong but flexible, and is hand-moulded on plaster casts to form splints. Like leather, Vyon permits the passage of water vapour. Splints made from it are light in weight (about half the weight of non-porous polythene) and quick to produce (a cervical collar takes about four hours). Vyon splints are durable and may be kept clean by washing. The makers acknowledge help from the department of biomechanics and surgical materials, Institute of Orthopaedics, University of London, and the

appliance workshops of the Royal National Orthopaedic Hospital, Stanmore, Middlesex.

Sun-tan Products.—Expected to be in full distribution throughout the country by May, Innoxa tan cream, in two sizes, and tan oil, in one, are being launched by Innoxa (England), Ltd., 1 Eden Street, London, N.W.1. The cream has a non-greasy base, and the oil contains a skin conditioner.

Moisturising Cleanser.—Revlon International Corporation, 85 Brook Street, London, W.1, have introduced a new spring beauty treatment: "Moon drops" moisturising cleanser, greaseless in "feel" both on the hands and on the face, leaving no greasy film behind and instantly removing dirt, grime and make-up.

Shades for the Spring.— "Beauty Puff," the make-up claimed by its manufacturers, Goya, Ltd., Amersham, Bucks, to be "as fine as the traditional English complexion yet dense enough to cover imperfections," is now available in two new shades for the early summer: Nectarine (for a pale complexion) and honey moon (for a darker look).

Shampoo Range Extended.—Sidney Margolis, Ltd., Hemp Row, London, S.E.17, have added a 4-oz. bottle of egg and lanolin and medicated shampoos to their range. Each is issued 2 doz. bottles to a carton. Also available is a twin-pack sachet (of egg and lanolin and medicated shampoos) in pack of 6 doz. per carton of either variety.

Liquid Eye-liners.—Coty (England), Ltd., Stratford Place, London, W.1, have launched a new eye cosmetic, "Eye Lights" liquid eye liners, in "exciting green," "shimmering violet" and "sparkling horizon" iridescent shades and "panther black," "calypso" (brown), "true violet," "emerald blue" and "French green" satiny shades. A brush is available for application.

Colour Rinse and Lightener.—Richard Hudnut, Ltd., Eastleigh, Hants, are launching two new hair preparations, Colorific semi-permanent colour rinse and Bright Future instant hair lightener. The colour rinse is available in "tiger lily," "red cheetah," "brown jaguar," "midnight panther," "silver mink" and "golden leopard" shades.



The product is a "rich foam that puts colour right into the hair," producing an effect that lasts through many shampoos and is claimed unaffected by swimming or rain, and not to brush off, rub off or stain the scalp. With Bright Future, "brunettes can be burnished blondes in less than an hour." The "honey" oil conditioner and cream developer are claimed to ensure an even colour throughout. The product is simply applied with a brush and combed through.

An Advance in Razor Hygiene. — Ever-Ready Razor Products, Ltd., 26 Bedford Row, London, W.C.1, have



launched a new SteriShave liquid and razor bath. The blue liquid has disinfecting, cleansing and anticorrosive properties. When the razor has been used

TRADE

Summer-season Sundries. — Butler & Crispe, Ltd., 80 Clerkenwell Road, London, E.C.1, offer a comprehensive range of sunglasses, bathing caps, holdalls, washing squares, picnic outfits, etc.

Stylish and Elegant Sunglasses. — Surdent Manufacturing Co., Ltd., 784 High Road, London, N.17, claim for their Surdent sunglasses that they are "stylish, unique, restful, delightful, elegant, new, and tasteful."

Large Sizes. — DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1, have launched a large-sized tube of their Val-Pak cream face pack. — PEPSODENT, LTD., 449 London Road, Isleworth, Middlesex, have introduced an "economy" size of Pepsodent tooth-paste.

Changed Name for Series. — Because of possible infringement of another trade mark registered by an American company, Croda, Ltd., Cowick Hall, Snaith, Goole, Yorks, have withdrawn the name of the product Etolan, which applied to their ethylene oxide derivatives of lanolin alcohols, and substituted for it the name of Polychol.

Picnic Cases. — L. Rees & Co., Ltd., 31 Wilson Street, London, E.C.2, have produced an illustrated leaflet showing their range of picnic ware for 1961. The range includes five picnic bags and four fibre picnic cases. All the outfits have been improved on last year's models and include three entirely new picnic bags.

Drugs from Russia. — V/O Medexport-Smolenskaja-Serinaja, 32 Moscow G-200, U.S.S.R., export more than 500

is it given a quick rinse under the tap and plunged into the SteriShave. When needed again it is ready for use after rinsing under the tap. Refill sachets of the liquid are available.

Coping With the First Grey Hairs. — With Color-Match, a new shampoo-type semi-permanent colouring claimed to cover up to 50 per cent. of grey for 4-6 weeks, Golden, Ltd., 7 Grosvenor Street, London, W.1, have set out to solve the problem facing a woman when grey hairs appear. Color-Match is a liquid colouring that needs no skin test and is applied straight from the bottle like a shampoo. It is understood to offer natural colour plus improved hair condition. There are six shades (light brown; mid-brown; dark brown; light golden brown; mid-warm brown; and dark warm brown). In use, Color-Match is applied after first shampooing the hair with a soapless shampoo, rinsing and rough-drying. It is sprinkled on to the hair, beginning where the hair is greyest, and working up a lather. It is then left for about fifteen minutes for the colour to develop. Finally the hair is rinsed thoroughly with hot water until the water runs clear, combed and set. Claimed unaffected by rain or bathing, Color-Match survives 6-8 shampoos, and subsequent applications are understood to leave no demarcation line or darkening of colour. Messrs. Golden's Brown-Glo, which is made in the same six shades as Color-Match but is, as the makers admit, "more messy," is being continued for the benefit of existing users.

NOTES

medicinal preparations fully complying with the requirements of the State Pharmacopœia of the U.S.S.R., including Shostakovskiy balsam, vaccine of Margoulis-Shubladze, Fosarbin, etc. Reference books are available on request.

Change of Source. — All preparations previously marketed by Hommel Pharmaceuticals, 121 Norwood Road, London, S.E.24, are now supplied by Lloyds' Pharmaceuticals, Ltd., 11 Waterloo Place, London, S.W.1. The series includes Dormupax, Haematoxin, Hicoseen, Hyperysin, Nyxolan, Pertix and Trisan.

Sales of Sodium Gluconate. — Pfizer, Ltd., Sandwich, Kent, and their subsidiary Kembell, Bishop & Co., Ltd., have entered into an agreement with Diversey (U.K.), Ltd., 42 Weymouth Street, London, W.1, under which Messrs. Diversey will handle all sales in the United Kingdom of sodium gluconate or gluconic acid required for use in bottle-washing or aluminium etching in the U.K. Messrs. Diversey hold patents Nos. 771,791, 771,792 and 731,035 covering the use of sodium gluconate or gluconic acid in those fields. Messrs. Pfizer state that they neither recognise nor contest the validity of those patents.

Products for Animals. — Roland C. Heath, Ltd., 33 Winchester Road, London, N.W.3, market a series of products for animals, including Muzzle-it, designed to stop pail-fed calves from sucking one another and thus eliminating the need for pen separation; Pece, a re-

pellant to stop pigs fighting when litters are mixed; and Doggie-sham, a water-soluble dog shampoo that removes immediately any parasitical life on the animal, repels parasites and improves coat lustre. The first two are issued in 4-oz. polythene spray containers and in $\frac{1}{2}$ -pint containers with pump unit; and the third in 2-oz. and 4-oz. polythene spray containers.

The World of Sound. — Described as a travelling presentation of the latest medical, musical and scientific developments in the world of sound, an exhibition consisting of sixteen colourful stands has been arranged by EMI group of companies, Hayes, Middlesex, under the title Emifair. It is to visit towns in England, Scotland and Wales. Among the exhibits is a range of Ardente hearing aids including "stereophonic spectacles" for those whose livelihood depends on "the very highest degree of accurate hearing." Also demonstrated is the Ardente stethoscope which is claimed to magnify the sounds from a human heart beat 100 times.

Prize-winners. — Results of the £1,000 Dreamland electric blanket display competition have been announced. Each entrant was invited to arrange during the 1960-61 season a window or interior display featuring Dreamland blankets and to submit photographs of it. The three main prizes were won by non-chemist dealers. Winners of £25 consolation prizes included the Colmore Road/Bull Street, Birmingham, and 8 Union Street, Glasgow, C.1, branches of Boots, Ltd., and the Manchester and Salford Equitable Co-operative Society, Ltd., Downing Street, Manchester, 1. Manufacturers are Easipower Appliances, Ltd.; address: 30 High Street, Southampton, Hants.

A Spout with the Can. — With the 5-oz. and 10-oz. containers of Rentokil woodworm killer the makers, Rentokil Group, Ltd., 16 Dover Street, London, W.1, are now supplying a red plastic spout for injecting the solution into woodworm flight holes. The new, clean flight-holes appear when the winged adult beetles emerge in May, June and July. In cracks and crevices in the rough woodwork one female may lay between twenty and sixty eggs. A warning is given that injection alone does not eradicate woodworm, and it is useless to treat merely the area where flight-holes are found. All wooden surfaces of the article must be liberally brushed with Rentokil (larger areas may be sprayed).

An Incentive to Stockists. — To enable stockists of Remington electric shavers to take advantage of a competition sponsored by Crosse & Blackwell, Ltd., in nationally advertising their soup and baked beans, showcards have been produced inviting members of the public who enter the competition through Remington stockists to have a free demonstration of the shaver. Each showcard has a competition leaflet "dispenser," and bears an eye-catching beach scene with large Remington shaver in the foreground. If an entry form winning a major prize is subsequently found to have been obtained from a Remington dealer, that dealer

receives a Crosse & Blackwell hamper containing a range of the company's foodstuffs. Showcards and leaflets may be obtained on application to S.P.D., Remington Electric Shaver, Ltd., 26 Kensington High Street, London, W.8.

A Display of Apparatus.—An exhibition from March 6 to March 10 at Newbridge Works, Cannon Street, Middlesbrough, Yorks, by Middleton & Co., Ltd., scientific apparatus dealers, attracted much interest. Mr. T. H. Hopper (director in charge of the laboratory furnishing department) told a representative of THE CHEMIST AND DRUGGIST of the fast-growing demand from universities and technical colleges, as well as from industry, for laboratory equipment. The company which celebrated its centenary in 1959, covers an area from the Tyne to Harrogate and Scarborough. Pharmacists have been among visitors to the exhibition, which was also well attended by visitors from industrial concerns, from industry, from Durham University and from local technical colleges. The department was transferred to Newbridge Works only six months ago. The pharmaceutical department remains at Boundary Road, Middlesbrough.

Exhibitors.—At the *Daily Mail* Ideal Home Exhibition, Olympia, London, W.14, ALBRIGHT & WILSON (MFG.), LTD., 1 Knightsbridge Green, London, S.W.1, are displaying Calgon water softening powder.—Marigold baby pants are included in nursery products exhibited by J. ALLEN RUBBER CO., LTD., Whitecroft, Lydney, Glos.—Choice household disinfectants displayed by DURAZONE-CHOICE PRODUCTS, Lovers Walk, Ballards Lane, London, N.3, are supplemented by a range of aerosol sprays that include a new "pinpoint weed-killer" for lawns and paths.—MAYBORN PRODUCTS, LTD., 139 Sydenham Road, London, S.E.26, are giving a continuous demonstration of fabric dyeing with Dylon home dyes.—Rivella is served chilled from the stand of HORLICKS, LTD., Slough, Bucks, to bring out its full flavour.—The Polaroid department of JOHNSONS OF HENDON, LTD., Hendon Way, London, N.W.4, are demonstrating the newly introduced Polaroid Land "electric eye" camera.—KODAK, LTD., Kingsway, London, W.C.2, contribute a photographic section to the hobbies room of an exhibition house furnished by *Woman's Own*.—LILIA-WHITE (SALES), LTD., Bessemer Road, Welwyn Garden City, Herts, are showing the Golden Babe disposable napkin.—An exhibition "Beauty through the Ages" is the central feature of the display by MAX FACTOR, HOLLYWOOD AND LONDON (SALES), LTD., 16 Old Bond Street, London, W.1.—Nescafé and Nestea are offered by The Nestlé Co., Ltd., St. George's House, Wood Street, London, E.C.2.—Claimed the first fully automatic overblanket made in Great Britain, the Monogram blanket is exhibited by MONOGRAM ELECTRIC, LTD., Gatwick Road, Crawley, Sussex.—Sentinel home freshener packs have been specially prepared for sale at the exhibition by NEW HYGIENE, LTD., 266 Holloway Road, London, N.7.—Fru-Vita blackcurrant drink and Optrose

may be tasted at the stand of OPTREX, LTD., 17 Wadsworth Road, Perivale, Greenford, Middlesex.—BELL & HOWELL cine equipment displayed by RANK PRECISION INDUSTRIES, LTD., includes Autoset II and Sundial cameras, and Lumina and Moviemaster projectors.—ROZALEX, LTD., 10 Norfolk Street, Manchester, 2, offer their newest lines: fruit stain removing cream, waterless skin cleanser and stain removing cream.—SUNBEAM ELECTRIC, LTD., East Kilbride, Glasgow, show the Shavemaster and Rollmaster electric shavers. The exhibition is open Monday-Saturday, 10 a.m.-10 p.m., until April 3.

Bonus Offers

WILLIAM FREEMAN & CO., LTD., Subseal Works, Peel Street, Barnsley, Yorks. Suba-Seal hot-water bottles. 10 per cent. discount for ordering before June 30.

IMPERIAL CHEMICAL INDUSTRIES, LTD., pharmaceuticals division, Alderley Park, Ches. Savlon two-purpose barrier cream. Twelve tubes invoiced as eleven (purchase tax payable on the bonus tubes). Until May 13.

ELLANBY LABORATORIES, LTD., 197 Lyham Road, London, S.W.2. New "Night Tan" liquid cream. 15 per cent. special bonus on parcel containing six 4-oz. and six 2-oz. "Night Tan" liquid cream and twelve 50-gm. "Night Tan" sunscreen cream.

THOMPSON & CAPPER, LTD., Speke, Liverpool, 24. Mothaks and Mothak aerosols. Bonus offer ends April 1.

TONI CO., Great West Road, Isleworth, Middlesex. Prom. One whole-head and one end-curl Prom free with each bonus pack (1 doz. whole-head and 1½ doz. end-curl Prom). Caress Four brush rollers with each Caress hairspray.

HORTICULTURAL

Garden Sprayer.—Liquinure Sales, Ltd., 19 Duke Street, London, W.1, are marketing what they describe as a revolutionary labour saving device for amateur gardeners: the LiquiSprayer. Designed for a multitude of spraying



operations in the garden, it also saves the time and labour of carrying heavy buckets of liquid fertilisers, insecticides, weedkillers, etc. The pack, printed in three colours, includes plastic hose end connector, nylon cleaning tool and instruction leaflet.

Broad-leaved Selective Weedkiller.—A new broad-leaved selective weedkiller, Mecopon, is marketed by Dow Agrochemicals, Ltd., London and King's Lynn. The product is a formulation based on CMPP and silvex.

It has Ministry approval, does not sterilise the soil, is non-poisonous, and is applied by low-volume sprayer. Protective clothing is not needed during application. Mecopon controls such arable pests as charlock, fat hen, orache, cornbuttercup, docks, poppy, wild radish, annual nettle and creeping thistle and is therefore of value as an alternative to the highly poisonous chemicals formerly used to control those weeds. It controls cleavers and chickweed, which have formerly resisted such chemicals as those of the MCPA group. The new weedkiller is being introduced by a competition based on the identification of weeds from silhouettes, the first prize being a Massey-Ferguson 35-in. de luxe Diesel tractor. Entrants are invited to participate in the production of a "weed map" of Britain by listing the six most troublesome weeds on their respective farms.

Garden Spray and Weed-killer Aerosols.—A giant-size garden-spray aerosol (16 oz.) pack, believed the largest on the market, has been added to the Durazone-Choice range, to which has also been added a "pinpoint weed-killer," claimed to rid lawns and paths of a wide variety of weeds and to be extremely easy to use. The pack is a 6-oz. pressurised container. Manufacturers are Durazone (Sales), Ltd., Lovers Walk, Ballards Lane, London, N.3.

MANUFACTURERS' ACTIVITIES

Factory Extension in Dublin.—An extension to the factory and offices of the Irish subsidiary of Beecham Products, Ltd., was opened at Long Mile Road, Drimnagh, Dublin, by the Minister for Industry and Commerce (Mr. John Lynch) recently. He congratulated the company, pointing out that the number of employees had doubled in less than five years.

Retirement Presentation.—To mark the retirement of Mr. D. E. MacIntosh (Department of Health for Scotland), members of Smith & Nephew Associated Companies, Ltd., arranged a luncheon in his honour in Edinburgh on February 1. They also presented him with a special type of stop watch, which will be of particular use to him in his capacity as president of the Motor Cycle Racing Association—his great hobby. Present at the luncheon were several chief pharmacists from Scottish hospitals, representatives from the Department of Health, and from the company.



Mr. A. Lucas (Smith & Nephew, Ltd.), makes the presentation to Mr. MacIntosh.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Two Pictures

SIR.—Two pictures: the modern factory with all the latest equipment and furnishings, to the accompaniment of increased personnel with handsome salaries, spring from a Nissen hut in a railway siding near Slough forty or fifty years ago. The other, the dispensing chemist who provides the grist for the mill—still carries on as did his forefathers for hundreds of years, in his little compartment back of his retail premises, sometimes without even seating accommodation; and in addition to his duties is now required to act as tax collector.

INTERESTED

"Honorary Civil Servants"

SIR.—Like most business people pharmaceutical chemists are unpaid tax collectors, but we have also enjoyed the privilege of:—

- a. Collecting the National Health Service prescription charges or sickness tax;
- b. Endorsing and issuing forms EC57.
- Now, as an extra public duty, free to the customer, we are, in the matter of prescribed items of 2s. or less, to:—
- c. Price the item;
- d. Endorse the prescription "Not supplied";
- e. Parcel and post the endorsed prescriptions—presumably to the Executive Council; it would seem pointless to send them to the pricing bureau.

Are we really contractually obliged?

J. DEWHIRST,
Bradford

Cause and Effect?

SIR.—It is with regret that I have read the correspondence in the local and national Press regarding Sunday dispensing. It is a shame that one of the Pharmaceutical Society's inspectors should have the task of answering, but sheer chance that he happened to live in the vicinity and could do so with some authority. Many times has the subject been raised that the Society should have a good public-relations department who rooted for us, but our elders in their wisdom have decided otherwise. The increase in these outcries only reinforces this necessity. But why do these blank spots in service out of normal hours exist? Simply because the Society does not treat rota breaking as an ethical offence. I do not know personally the conditions prevailing at the latest trouble spot, but elsewhere it does occur and is rapidly increasing. Members agreed to operate a rota, then one starts opening in excess to pinch his colleague's trade, but calls it service to the public. Soon a second does, then more. Can, then, one blame a pharmacist who is the sufferer from that state of affairs if he forgets to put up a notice detailing who is on rota duty, when that person is quite unconcerned as to whether he keeps his side of the bargain; or, secondly, while there are some

chemists open at all hours if there is business about, if he should be loth to spend unprofitable hours at business in the possibility of a stray script. If the Society's elders had made their presence felt on this and other ungentlemanly conduct, we would now be a solid body able to withstand the attacks of politicians, but as things are I regret to say we are a weak-kneed bunch of "I'm all right, Jacks." Collectively it serves us right. Is it too late even now to show our teeth?

NORMAN R. HAZZLEWOOD,
Sheffield, 8.

Special Case

SIR.—On p. 242 (March 11) you report that a pharmacist has been convicted in court and later been in danger of removal of his name from the register, owing to disputed claims for N.H.S. dispensing. On p. 243 the Minister of Health is reported as saying that chemists are expected to "dispense" N.H.S. prescriptions at ordinary retail price if under 2s. In some cases the gross profit to the "dispenser" will be less than one penny. With test prescriptions and allegations of forgeries sometimes amounting to a fraction of a pennyworth of drugs, one wonders if pharmacy is, like Alice, in Wonderland. Only yesterday a "slip of the pen" by a local doctor meant seven telephone calls before I could dispense the prescription—nearly two hours lost all told, and the dispensing fee on the latest Ministerial ruling would be less than threepence. Pharmacists are paid on a flat-rate piece-work basis. To pay the full rate only on the harder work would bring a general strike in any other trade or industry. But with pharmacists it is different!

"ALSO RESIGNED"

Profit Margins

SIR.—A letter appeared in the March 11 issue of the *C. & D.* (p. 248) referring to a new range of hair colorisers and a new hair bleach marketed by a well known manufacturer of home perms, shampoos, etc., which leads me to believe it referred to my own company: Richard Hudnut, Ltd. In that letter it was stated that the profit margin on the items concerned had been fixed at 25 per cent. only. It is unfortunate that the gentleman concerned did not ensure that his facts were correct before writing in so hurriedly, if indeed he was referring to Richard Hudnut items. The basic profit on Colorific is 33½ per cent., and in addition up to an extra 7½ per cent. quantity discount can be obtained, plus the usual 2½ per cent. cash discount. The basic profit on Bright Future is 26.75 per cent., and in addition up to 7½ per cent. quantity discount can be obtained, with again the usual 2½ per cent. cash discount. I would further point out, because my company allows a cash discount of 2½ per cent. to all customers, purchase tax on items rated at

50 per cent. is charged at only 48½ per cent. Our profit margins compare most favourably with our competitors', and the additional quantity discount should not be ignored, because all our items may be combined to ensure the attainment of such discounts.

A. W. D. LUDDINGTON,
Director, toiletries division,
RICHARD HUDNUT, LTD.,
Eastleigh, Hants

Public Pharmacists' Week-end School

SIR.—May I remind readers who are hospital pharmacists that bookings for the week-end school organised by the Guild of Public Pharmacists must be received before the end of this month. No bookings can be accepted after that date. There are a few places still available, and these are open to any hospital pharmacists whether Guild member or not. The course assembles on Friday afternoon, April 14, and finishes about mid-day on Sunday, April 16. The following subjects are being presented as papers or symposia: The post-graduate student; hospital pharmacy planning; sterile supply departments; drug structure and pharmacological action. Applications, accompanied by an inclusive fee of £5 5s. should be sent without delay to me at the address below

E. GEORGE, F.P.S.,
Pharmaceutical Department,
The Royal Infirmary,
Bristol, 2

Appreciated

MAY I express my thanks to you for prompt and courteous service to me throughout some twenty-seven years—sometimes troublesome periods—and for that more than excellent Quarterly Price List.—J.E.W.



LONG-SERVICE AWARD: Mr. C. C. Valli (chairman and managing director, Coty (England), Ltd., London, W.1) presents Mr. J. McWhirter, the representative in Scotland, with a gold watch on completion of twenty-five years' service.

WHAT THE DOCTOR ORDERED

THE prescription item illustrated last week was for Ung. Cremalgin, oz. 2.



The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

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TELEGRAMS: "CHEMUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

A Careers Week and Pharmacy's Part in It

THE year 1961 has greatly added to the number of parents faced with the career problems of newly-arrived "teen-agers," for in 1962 about 929,000 boys and girls will reach the age of fifteen, of whom 494,000 are expected then to leave school; the comparable figures for 1956 were 613,000 and 333,000 respectively. The school-leavers will be joining the ranks of the nation's workers, and for the remainder their continued education will be increasingly influenced by the sort of work they hope eventually to take up. To be able to give wise guidance to those young people, parents and other advisers need a wide knowledge of the whole field of opportunity. To gain that they need to find answers to many questions. What openings are there for apprentices and learners and what prospects for the future do they offer? What special aptitudes are required? What training is needed and how and when is it given? How can such education be acquired? The young people themselves must have a large share in determining their future and it is important that they should have the fullest opportunity to see things for themselves, to meet and talk to other people, and to get the feel of the world they will soon be joining. Only so can they hope to avoid short-sighted acceptance of a blind-alley occupation.

To employers it is important that costly training shall not be wasted on unsuitable people, especially when some loss of production results from releasing apprentices and learners to attend classes for further education and additional experience.

In his capacity as President of the City and Guilds of London Institute, the Duke of Edinburgh proposed a Commonwealth Technical Training Week. Objects of the Week, which is to take place May 29 to June 4, are to stress the importance of schemes of training; to provide better opportunities to young people to learn what training and education are available; and generally to emphasise the significant place of the young worker in society. The Week is intended to cover all forms of training for employment, including pharmacy, and the active participation of the Pharmaceutical Society is demonstrated by a scheme described on page 266 of this issue. The fact that over thirty Commonwealth territories are taking part in the Training Week means that local as well as national co-operation is necessary. Among the many organisations called upon to co-operate are branches of the Pharmaceutical Society and pharmacists in charge of hospital departments. The special position of pharmacy—in view of the

recent changes in the examination regulations and syllabus, and the creation of new places in the schools—should act as a spur, if that were necessary, to branch secretaries to see that their own technical training courses are favourably presented to their local youth. Otherwise the present difficulties of staffing both retail and hospital pharmacies may become well nigh incapable of solution when the famous "1962 bulge" in out-turn of students from schools has given way to a gradual diminution in the number of young people seeking jobs. A career in pharmacy is both attractive and capable of being attractively presented. We think the Pharmaceutical Society's Publicity Committee has produced excellent ammunition for those pharmacists who will be actually giving out the advice to inquirers, and we hope that no areas will lack the active co-operation of all concerned.

Counter Sale or Professional Service?

If the Minister of Health cannot differentiate between the dispensing of a prescription and the assembling of an ordinary order for proprietary medicines, then it is time leaders in pharmacy took steps to remedy his shortcoming, and his recent utterances suggest that the process of education should begin forthwith.

Mr. Enoch Powell's answer to Mr. A. E. Oram, who, on March 6, asked what steps were proposed to ensure that a patient was not required to pay 2s. for a prescription for which the ordinary retail price was less than 2s., was: "I expect the chemist to sell such items at the retail price. Guidance has already been given to chemists by their professional organisation, and I am considering with them what further guidance, if any, is needed." An earlier reply on the same day by Miss E. Pitt (Parliamentary Secretary) indicated that the number of items in the Formulary under 2s. was quite small. She went on: "Those that come readily to mind are calamine lotion, zinc ointment, aspirin tablets and compound codeines . . . in many cases dressings may be under 2s."

When a pharmacist dispenses a prescription he undertakes many unseen responsibilities that are absent in most over-the-counter sales. As stated in "The Art of Dispensing," "a dispenser of a prescription occupies a unique position of trust and confidence as an intermediary between prescriber and patient, and nothing should be done that might undermine that position."

Once an item is written on a prescription, whether on an EC form or otherwise, it should be dispensed without reference to or discussions with the patient, whether as to its therapeutic aspects or as to its price. A doctor who wishes his patient to obtain "some aspirins," "codeines" or "kaolin," then should either give verbal instructions or write a "note," not a prescription.

Unfortunately the public image of the pharmacist is at present entirely inadequate, and even in Parliament, where a higher standard of knowledge might be expected, there seems to be a lack of real appreciation of pharmaceutical principles. Even the presence there of a secretary of the Pharmaceutical Society does not appear to have remedied the situation. Failing that, it becomes the responsibility of members of the Council of the Society and of the Executive of the National Pharmaceutical Union to make sure, by continuous hammering home of the subject, that the Minister is made aware of pharmacists' problems.

Onward from Galen

A CURRENT CAUSERIE

HAPPILY, that insidious journalistic wasting disease that claimed a notable victim in Fleet Street not so long ago, does not appear to have spread, as yet, to the world's pharmaceutical Press. On the contrary. We have recently received, and read with interest, the first number of the *Journal of the Pharmaceutical Society of Nigeria*, which is initially to be published at quarterly intervals. This maiden issue contains personal messages from Mr. H. S. Grainger (vice-president of the Pharmaceutical Society of Great Britain) and Dr. T. D. Whittet (chief pharmacist, University College Hospital, London). Mr. Grainger writes "We have watched the development of your Society with great interest and affection and are proud of the part we have been able to play in it." Contributions to this first number include articles on recent research upon pyrogens and fever, vitamins and states of altered metabolism, bacteriology and its relation to pharmacy. There are critiques of specifically Nigerian aspects of pharmacy. We take the opportunity of sending the editor and staff of our new contemporary our best wishes for success in their venture.



THE enterprise of a group of Irish pharmacists in organising, with the approval of the Pharmaceutical Society of Ireland, a post-graduate educational course attracted the



success it deserved. It really did more than that, since the schemes drawn up, which included correspondence courses designed to modernise the pharmaceutical knowledge of pharmacists whose year of qualifying was before many of the major modern developments in medical research, were entered into by an impressive number of seekers after knowledge not only in Ireland but also in Great Britain and other overseas territories. The extent of the success of the enlightened venture is not to be measured in terms of money. No doubt many of those who entered upon the post-graduate courses have found the benefit in their day-to-day business activities, but that was not the prime objective. In another way the success the organisers encountered recently made itself apparent, for the illustration shows Mr. D. W. P. Boyd (secretary of the Post-graduate Education Committee in Dublin) (at right) handing to Mr. Frank Loughman (president of the Pharmaceutical Society of Ireland) in the presence of Messrs. D. J. Kennelly (the Committee's treasurer) and H. P. Corrigan (its chairman) a cheque for £105 to the Irish College of Pharmacy Fund. Welcome as that contribution is, it leaves the Fund still far short of its target. The appeal which the Society launched has attracted some other notable contributions, especially from manufacturers, but many others have not yet seized the opportunity of taking part in a development that must mean a great step forward in pharmaceutical education in the Republic, and in the welfare of the profession everywhere. The donations should be sent to the Society's registrar (Mr. James G. Coleman) at 17 Shrewsbury Road, Dublin.

NEW FILMS

Emergency Splinting with Plaster of Paris

Smith & Nephew, Ltd., Bessemer Road, Welwyn Garden City, Herts. 16-mm. Sound. Colour. Running time: 17 minutes.

READY-MADE plaster-of-Paris bandages, established in orthopaedic surgery for many years, are now being advocated for the construction of special splints as a first-aid measure in the treatment, in some circumstances, of common fractures and soft-tissue injuries. Under medical supervision and training, nursing auxiliaries and first aiders can be taught to apply the splints, which are suitable for use in the first treatment of mass casualties arising from civil air or rail disasters. The film aims at showing how that can be done. It illustrates the ease of storage, transport, and the safe use of plaster-of-Paris bandages as well as the well-known risks resulting from their misuse. The film is suitable for showing to groups of pharmacists and is available on free loan from the medical information department of the company.

Hair Health and Beauty

The Toni Co. (division of Gillette Industries, Ltd.), Harlequin Avenue, Brentford, Middlesex. Filmstrip in single-frame (24 x 18-mm.) or double-frame (35 x 24-mm.) version. Colour. 27s. 6d. (single-frame); 37s. 6d. (double-frame).

"HAIR, Health and Beauty" is an educational filmstrip sponsored by The Toni Co. in consultation with the National Committee for Visual Aids in Education. Comprising twenty-eight colour frames with accompanying teacher's notes, the programme is aimed at informing and advising young teenage girls on the nature, styling and care of their hair. Suggestions are made for the choice of hairstyle best suited to particular shapes of head, and particular consideration is given to the type of hair that can be improved by permanent waving. Copies of the film may be obtained from the producers, Diana Wyllie, Ltd., 3 Park Road, London, N.W.1, or from the Educational Foundation Film Library.

100 YEARS AGO

CALKIN'S OCCHIOMBRA

From the C. & D., March 15, 1861

THIS eye shade [Calkin's transparent eye shade, or occhiombra] consists of a very light wire framework, over which is

extended an extremely fine transparent fabric of gauze or other material. A portion of the framework (almost invisible to the by-stander) rests upon the nose, passes close to the face under the eyes to the temples, supporting the fabric at the lower part of the shade, thus forming a large chamber for the eyes. The material of which it is formed is sufficiently fine to protect the eyes from wind, sun, or dust, yet at the same time it permits the passage of the air so as to avoid the retention of the heat of the face; this advantage is still further insured by a lengthened opening in the upper part.



Its appearance, as shown in the engraving, is that of the usual shade; but more symmetrical and elegant in its outline.

The shade can be placed and removed with the same ease as a pair of spectacles; and is so light as to be scarcely perceptible to the wearer, being in weight about half an ounce.

If necessary the fabric may be doubled, to meet the requirements of those with weak or inflamed eyes.

It is suggested that it will be found of great service to those who travel by railroad; as well as to travellers in India and Egypt, and alpine excursionists, as a protection from sun and sand in tropical regions, and from sleet, wind, and the painful glare from the snow in colder situations.

THE DRUG AND THE ROUTE

A review of methods of administration

IV. The Oral Route

J. C. GREENLEAF, M.P.S., and J. W. HADGRAFT, F.P.S., F.R.I.C.
(Pharmaceutical Department, Royal Free Hospital, London, W.C.1)

PREVIOUS articles in this series have dealt with rectal, respiratory and sublingual means of administering drugs.* The simplest and most convenient method (and therefore the method of choice wherever possible) is by the oral route. Some substances are inactivated by alimentary secretions, and therefore ineffective orally. Others, though not absorbed into the systemic circulation, exert useful local effects in the digestive tract. In reviewing the oral route of administration, it is appropriate to start by a consideration of the preparations that are used for their local effects.

PART A. PREPARATIONS ACTING LOCALLY IN THE DIGESTIVE TRACT

Antacids

Simple alkalis such as sodium bicarbonate are effective antacids but have the disadvantages associated with the liberation of large volumes of carbon dioxide and the risk of producing alkalosis and acid rebound. The oxides and carbonates of magnesium have also been used, but may be too laxative in their effects. Bismuth carbonate, which for many years enjoyed a popularity as an antacid, has been shown to have poor neutralising properties and consequently has virtually passed out of use. In recent years, there has been a continuous search for improved antacid preparations.

The properties of an ideal antacid have been listed¹. They are (a) that it should have a high neutralising capacity; (b) that it should be rapid in initial effect, and remain active over a long period of time; (c) it should not cause "acid rebound" nor undesirable constipating or laxative effects; and (d) it should be non-irritating, palatable and inexpensive.

The stomach normally secretes about 1,500 mils of N/10 hydrochloric acid daily. The pH of gastric secretion is normally 1, but there is lack of agreement in the literature on the pH range desirable for an antacid. Suggested ranges have varied from "above 2" to "between 4 and 5.5"; by many workers pH 3.5 is considered the ideal, as pepsin is not appreciably active at this pH. Whilst inactivation of pepsin may be a factor in the treatment of gastric ulceration, it is probably only of secondary importance, the primary consideration being to counter the irritant effect of acid on the ulcerated surface. Attention might, therefore, be directed to determining the pH at which the maximal relief is obtained.

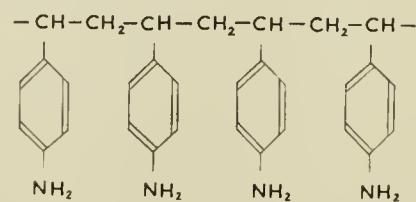
For the estimation of antacid activity, it is impossible to reproduce exactly the conditions of the living stomach. Various *in vitro* methods, have, however, been devised that provide some indication of the possible activity of antacids in the living organism. The most reliable methods depend upon the addition of the preparation to a bath of artificial gastric juice maintained at a constant temperature and stirred continuously. The pH is determined at various time intervals, providing a measure both of the immediate neutralising effect and the total antacid capacity of the preparation. To obtain reliable comparisons of different preparations, it is necessary to follow a closely standardised technique since factors such as the temperature and rate of

stirring greatly affect the results obtained.^{2 3 4 5} Such *in vitro* comparisons of antacids have indicated that combinations of aluminium oxide and magnesium trisilicate will maintain a pH of 4 or below; mixtures of calcium carbonate, magnesium trisilicate and magnesium carbonate are more effective in maintaining a pH of 6.8 or below, whilst magnesium oxide and sodium bicarbonate are the most effective in producing a pH of 7 or more.¹

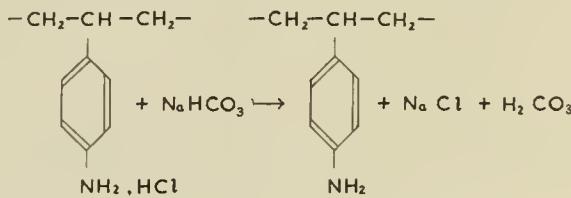
Various mixtures of antacids are in common use. Magnesium trisilicate mixture, B.P.C., combines the immediate chemical neutralising effects of the carbonates with the more prolonged physical adsorbing properties of magnesium trisilicate. Tablet formulations are also popular, but there may be some loss of antacid activity when a gel such as magnesium hydroxide or aluminium hydroxide is dried before compression into tablets. It has been claimed that a polyhydroxyaluminium monocarbonate hexitol complex (Actal) is more active in tablet form than dried aluminium hydroxide gel.⁶ A "co-dried" gel of magnesium hydroxide and magnesium carbonate has also been introduced in tablet form (Almacarb), and it appears superior to tablets of aluminium hydroxide. In an attempt to provide a convenient substitute for continuous milk drip therapy, another preparation (Nulacin) was introduced; it combines the buffer action of dried milk solids with an antacid.

A Novel Approach

A novel approach to the formulation of antacid preparations has been the use of an ion exchange resin⁷ (Transid). The compound used is polyaminostyrene, which has the following structural formula:



Although only a weakly basic compound, polyaminostyrene has a high antacid capacity owing to the free amino groups, each of which is capable of binding a molecule of hydrochloric acid. 1 gm. of the resin will inactivate about 60 mils of gastric secretion, raising the pH to 3. In the alkaline environment of the small intestine the reaction is reversed in accordance with the following reaction:



In addition to neutralisation of gastric acidity, inactivation of peptic activity may also play a part in preparations formulated for the treatment of gastric ulcers. Suggestions that a fraction of gastric mucin possesses antipeptic activity have led to the use of a sulphated polysaccharide for the

treatment of peptic ulcer. Degraded carragenin (Ebimar), which is derived from seaweed, has been shown to have a protective action in preventing histamine-induced peptic ulcers in guinea pigs⁸, and it is now available in tablet form either alone or combined with aluminium hydroxide for clinical treatment.

Evacuant Preparations

Traditional evacuants have included simple solutions of sodium and magnesium sulphates and castor oil. The saline purgatives exert their effect by decreasing the absorption of water in the large intestine, thus increasing the bulk of the contents of the bowel and stimulating peristalsis. The effect of castor oil is produced by liberation of ricinoleic acid and its conversion to sodium ricinoleate, which exerts a powerful irritant effect in the gut.

Other purgative preparations have included vegetable drugs such as senna, cascara, rhubarb and aloes, all of which owe their activity to the presence of anthraquinone derivatives. Anthraquinones irritate the intestinal mucosa, and thus stimulate reflex contractions (peristalsis). Galenical formulations of senna tend to vary in their activity owing to incomplete extraction of the active principles during manufacture, loss during the evaporation process, and further deterioration on storage⁹. Moreover, there appears also to be an active non-anthracene fraction that is not extracted by normal alcoholic or aqueous solvents. A biologically standardised preparation of senna (Sennokot), having a more consistent activity than the usual galenical preparations, is now available both as granules and as tablets.

Phenolphthalein formerly enjoyed considerable popularity as a laxative but as it is partially absorbed and re-excreted in the bile it may have a continuing effect for several days.

A more recently introduced contact laxative is the synthetic drug bisacodyl (Dulcolax). That has the advantage of being synthetic and, therefore, of possessing more constant activity than the more traditional purgative preparations. Another recent development has been the use of the detergent substance sodium di-octylsulphosuccinate (Mannoxol, Aerosol O.T.), which is administered in doses of 1 to 2 mils of a 1 per cent. solution, well diluted with water or fruit juice. That preparation is now also available as tablets (Diocyl-Medo).

As a mild laxative preparation, liquid paraffin is used for its lubricant effect in the bowel. It is now the subject of considerable controversy, many authorities considering that it should not be administered regularly in an emulsified state, since it has been suggested that some absorption of the oil may occur from emulsions and there is a risk of possible carcinogenic effect from repeated dosage.

The bulk laxatives exert their effect by absorbing water and swelling in the bowel, thus stimulating peristaltic movement mechanically. Mucilaginous substances of vegetable origin, such as sterculia (Normacol) and ispaghula (Isogel), have been formulated into pleasantly flavoured granules for the purpose, and the synthetic gum methylcellulose forms the basis of a similar type of preparation (Celevac). Those products are usually taken with a drink. Administered with a minimum amount of liquid, the same preparations absorb water from the intestine and have been used to check the fluid stools of diarrhoea and after a colostomy. *In-vitro* tests have shown that cellulose derivatives make more efficient bulk laxatives than natural gum, owing to their greater hydrophilic capacity. It has been claimed also that, because they form homogenous gels, they are less likely to cause intestinal blockage¹⁰. Methylcellulose has also been administered orally to produce gastro-intestinal distension and thus reduce the appetite. That effect forms the basis of a number of commercially available slimming aids.

Bactericides

Bactericidal substances are sometimes administered by mouth with the object of remaining unabsorbed on their passage through the digestive tract and exerting a local

effect in the intestine and bowel. The less soluble sulphonamides succinylsulphathiazole and phthalylsulphathiazole have been used frequently for that purpose. They may be administered as tablets or, if the relatively high dosages used make it more convenient, as a suspension in mucilage of tragacanth or methylcellulose. The insoluble derivatives of sulphathiazole are only partially hydrolysed in the gut, but liberate enough sulphathiazole to exert a local bacteriostatic effect. They are no more effective than soluble sulphonamides, such as sulphadimidine, in the treatment of bacillary dysentery but, because they are only poorly absorbed on oral administration, they are free of the systemic effects that may be produced by the more soluble sulphonamides. They are also used for sterilising the gut prior to surgical operations on the intestine and bowel.

Antibiotics that have been administered for their local gastro-intestinal effects have included streptomycin, neomycin, framycetin and paromomycin. Streptomycin sulphate is not generally favoured for the purpose at present, because it is liable to produce a resistant infection capable of developing when the susceptible organisms have been eliminated by the antibiotic. Neomycin sulphate is more favoured, particularly for preparation of the large intestine prior to surgery. For that purpose it is quicker-acting than the sulphonamides and, if high doses are used, gives adequate preparation within twenty-four hours. The high cost of treatment compared with that using sulphonamides may be justified by the reduction of the time for which it is necessary for the patient to occupy a hospital bed. Recently paromomycin has been introduced for purposes similar to those of neomycin. It appears to be an effective antibiotic and to possess properties much the same as those of neomycin. It has been shown active against some strains of salmonella¹¹.

Oral administration of antibiotics may reduce the natural bacterial flora of the intestine, and a superimposed infection of yeasts and other resistant organisms may result. It has also been suggested that some of the organisms present in the gut are responsible for providing a part of the body's requirements of the vitamin B complex. To counter those adverse effects a dried suspension of *Lactobacillus acidophilus* has been given orally (Enpac).¹²

Local Anæsthetics

Local anæsthetics are only rarely required to have a local effect in the digestive tract. However, they are sometimes used to relieve the pain of carcinoma of the oesophagus and stomach. For that purpose, benzocaine has been administered as a finely divided suspension in emulsion of liquid paraffin. A more recent preparation consists of a viscous gel containing lignocaine hydrochloride.

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"NATIONAL HEALTH KNITTING": Under that title a correspondent contributed a short feature to the women's page of *The Times* recently in which she writes: "Since every encounter with the Health Service seems to entail a long wait on a hard bench, and I have overcome the compulsion to read 1958 women's papers . . . I indulge in harnessed fidgeting and knit."

“OPEN SHOP”

AN UNSCRIPTED COMMENTARY ON THE
SPECIAL PROBLEMS OF THE PHARMACIST
IN RETAIL PRACTICE

E. C. TENNER

IN the first four days of March I have noticed no decrease in the number of items I have dispensed upon EC10 forms when compared with the comparable days in 1960. Inquiries made of other chemists in my town have endorsed my figures. We have all noticed, too, that about two persons out of three who have presented EC10 forms for dispensing were unaware that the increased prescription charge was operative from March 1. That ignorance may have been the reason for no reduction yet in the daily number of items dispensed. Perhaps, as the information sinks in, the numbers will drop, but at present the extra charge is being paid, if under protest. People who want relief from illness pay this tax on dispensed medicine from dire necessity, and the chronic sick who are just above the national assistance level are most bitter about what they regard as unfair imposition. If the average value of a dispensed item is now about 8s, the patient is paying 25 per cent. of it! So the whole ideal of national health service is being whittled away, replaced by a 75 per cent. State subsidy on essential medicine.

By the end of March we shall be able to see more clearly how the new charges are affecting the number of items dispensed, but the final pattern cannot yet be guessed at, so it seems impossible to agree upon a fair dispensing fee for the new conditions. However, there is no reason at all why agreement should not be clinched about the arrears of underpayment due to us up to the date of February 28, 1961. Agreement of the amount of that sum ought to be no longer delayed, and it should be paid to us next June at the latest.

We chemist contractors to the National Health Service have been placed in an unenviable position. Our “public image” has become that of a collector of a steeply increased tax that is regarded by many as an unfair imposition. Nobody who has spent even one hour in a busy pharmacy during the first four days of March could deny that much harm is done to our relationship with our customers by those inevitable misunderstandings. The miserable failure of pharmacy’s public relations officers and committees to achieve any correction of our “public image” ought not to escape serious indictment at the various delegates’ conferences that are pending. Strong pressure ought also to be put upon candidates for the Pharmaceutical Society’s Council elections to produce some fresh thinking and some productive activity in this matter. The manufacturers of proprietary medicines seem to have no difficulties in getting their viewpoint widely presented to the public. Does it hurt the dignity of the gentlemen at the Squares to talk in the public arena where public freedom is formed?

Holidays in the Offing

The spring-like weather naturally suggests annual holidays. Even if it did not, we are bombarded from all sides with advertisements for every conceivable sort of holiday. To all the advertised costs must be added “locum fees,” and that makes a pharmacist’s holiday much more expensive than that of a member of many a less “privileged” vocation. So many locums in these days expect to do little more than supervise the dispensing, in return for a top-notch fee and *de-luxe* expenses! One is lucky indeed to find a locum who does not leave everything to the “full supporting staff.” When such a godsend is discovered it is tempting to try to keep him (or her) to oneself, otherwise, when one wants



to make another booking, one may find he has booked with the fellow chemist to whom one praised him. The pity is, one cannot keep a good locum on ice! The proprietor’s privilege of being able to take a holiday whenever he wills can only be enjoyed subject to a locum’s consent. Every year about this time I go through a phase of wishing I were a locum, able to choose where I’ll hang up my certificate throughout about six months in the year, then to retire to some more salubrious foreign neighbourhood and live quietly on my savings and my income-tax rebate for the remainder of the year till the locum season returns again.

Forty years on, I am often remembering the leisurely and generally quarterly visits of the representatives of our wholesalers and manufacturers to our family pharmacy. I regret to find that the steady encroachment of soulless American business techniques into my life is stifling most of the intimate and personal pleasures that used to surround and colour our dealings with our suppliers. I can remember about half a score of those gentlemen who became our quite close friends. My father used to bring them home to tea when they visited us; closing time in those days was eight at night, so it was not easy to spend an evening entertaining. Those men did really represent their firms to us. They could speak with authority. Their decisions carried real weight. Year after year they were personally interested in our problems and enterprises. With hardly any exceptions (I do still know one), our traveller friends have now become mere cogs in a “merchandising machine.” All their decisions are made by some remote and heartless office robot as a result of inhuman statistical data. In some cases it seems against the company’s policy to allow any one traveller to remain on a particular territory long enough to establish friendship with his customers. The pity of it all is that this “American” method of attaining efficiency is quite unsuccessful. It takes just as long to get mistakes rectified as ever it did, and there are as many mistakes as ever there were before. Moreover, the lack of truly personal contacts engenders stultifying misunderstandings and frustrations, slowing down the wheels of our trading. This sentimental outburst was triggered off by quite a small straw at the top of a complicated order form:—“SHIP TO.....

..... BILL TO:.....” The manufacturers waste my time writing the same name and address twice, thereby impressing on me the fact that I’ve only got one business address. What I shall want is in my language an invoice, and my order will certainly be dispatched to me by post or rail, but perhaps most other chemists do have their goods delivered by ship in these days! English was good enough for Shakespeare.

NEW BOOKS

Work and Leisure Digest

JOHN MARSH. *Industrial Welfare Society*, 48 Bryanston Square, London, W.1. 8 $\frac{3}{4}$ X 5 $\frac{1}{2}$ in. Pp. ii + 82. 7s. 6d.

CONCERNING itself with some of the contemporary issues of work and leisure, the book is presented in a style that is readable both at work and at leisure. Its twenty-two features include “the cult of the self-made man,” “shop floor and office” and impressions of industry and society in the United States, Canada and India.

Progress Report on Education in Pharmacy

A REVIEW BY THE PHARMACEUTICAL SOCIETY'S PRESIDENT

THE decisions that the last Intermediate examination would be held in June and the last two-year Qualifying course begin in September were "making the educational picture a little clearer," said Mr. T. Reid (president of the Pharmaceutical Society) on January 24. He was giving to members of the Edinburgh and South-eastern Scottish Branch of the Society in Edinburgh an address entitled "Progress Report—A Review of Recent Decisions." He said the records of all students registered under the old regulations had been examined, and it had been found that only 202 such students had not yet begun a final course at a school of pharmacy. All had been written to, and only sixty had been found still to intend to qualify. Many of them had not yet satisfied the requirements of the Intermediate examination. Forty would probably be in a position to begin a two-year final course in September. That meant that only one, or at most two, schools would run such a course. In England and Wales the school, or schools, would be chosen by the Ministry of Education, but it appeared improbable that there would be sufficient students to run an economic course in Scotland. A final decision had yet to be taken at a meeting of the heads of schools of pharmacy later that week. That did not mean, explained Mr. Reid, that students who had failed to complete the Intermediate examination in time could not continue in pharmacy. They would now, however, have to sit the entrance examination in Scotland, or advanced level General Certificate of Education in England and Wales and change to the three-year Final course. Mr. Reid thought it interesting that a number of students had decided to take the three-year course, though entitled to take the two-year final course.

Entrance Examination Requirements

In Scotland all students sat the entrance examination as a means of satisfying the requirements for registration as a student. In England and Wales no student could enter for the entrance examination until he or she had two passes at advanced level in the G.C.E. Few students sat the entrance examination in England and Wales, the majority of them in the one subject which they had been unable to take at advanced level at school or have failed in. The commonest failure subject was physics. At some future date, he suggested it might be considered advisable to discontinue the entrance examination in England and Wales, as advanced level G.C.E. subjects were taught in most technical and grammar schools. In that event the position in Scotland would require special consideration, because of differences in the top-form standard of Scottish schools in the subjects required for pharmacy students.

None of the university schools of pharmacy now provided instruction for the Society's Diploma. They had all

received so many applications from students who wished to read for a degree (in some cases three times as many applications as they had places available), that they had to give precedence to such students, and in the next session several technical colleges had decided to concentrate on providing instruction for the external degree of London University. Mr. Reid said that, at the time the changes in the entrance requirements had been made, it had been accepted that, initially some falling off in the numbers of applicants would occur, owing to the raising of the minimum age from sixteen to eighteen. It had also been expected that more students would decide to read for a degree. That effect would be temporary, and it was felt that, with the raising of the entry standard, more students would attain the necessary standard in the final examination. The position had been surveyed just over a year ago and again recently and from the students at present undergoing courses of study the predicted pattern was emerging. The president added "I know that there has been some criticism of the Council's

STUDENTS AFFECTED	1960	1959
Total number of students...	1,797	2,006
Ph.C. old regulations (two-year course) ..	523	926
Ph.C. new regulations (three-year course) ..	301	139
Total number of degree students	973	941
Total first-year students ..	752	856
Total second-year students	799	
Total third-year students (diploma 7, degree 239)	246	
Total now in final year ..	613	

decision to raise the entry standard and extend the course from two to three years. Those have been answered, and I believe the position is now accepted, even if with some reluctance. There were many excellent reasons for the change, and I am encouraged by the results we have obtained so far." One result of the new curriculum was that recruitment of teaching staff had been assisted. No one regretted more than he, said Mr. Reid, that the traditional and longer period of practical training was a thing of the past. "Educationalists must be realists and look ahead, even if the right decision appears to be unpopular in some quarters." Today, he said, the standard of theoretical knowledge was considerable, whilst practical skill had lost some of its emphasis. However, with the new three-year final course, he believed the right balance had been struck. With the advances made in modern medication anything less than the present standard would leave the pharmacist inadequately equipped to take his proper place and to assimilate the changes that were yet to come. "We who have not had the advantages of this standard," he said, "have had to keep up to date. At times it has not been easy."

Increase in Society's Membership

As a final point Mr. Reid said that the register had again shown a net increase. Final figures were not yet avail-

able, but total membership was expected to be just over 28,000 at the end of 1960.

Turning to another topic, Mr. Reid said the Council had embarked upon a reconstruction programme that would result, when completed, in a house more suitable to the Society's requirements, and which would enhance its prestige. On the ground floor there would be reception and exhibition rooms and the offices of some of the senior officers, with the hall at the rear. On the first floor would be the new Council room, committee rooms and library, and on the two upper floors the various administrative departments such as finance, law and the Department of Pharmaceutical Sciences. The rear of the building would house the offices of the Society's journal and the publications department. It was fortunate, he said, that a "quite substantial" building fund had been accumulated — partly by subscriptions — otherwise the costs of acquiring the property and making the alterations would have fallen on the ordinary finances of the Society. The work was expected to be completed within the next three or four months.

Department of Pharmaceutical Sciences

The Council had decided, just over a year ago, that a new Department of Pharmaceutical Sciences should be formed under Dr. K. C. Capper, and the scope of the work of the Society's scientific publications extended. The basis of the work was the Society's publications: the British Pharmaceutical Codex, Extra Pharmacopoeia, the Pharmaceutical Pocket Book, British National Formulary (jointly with the British Medical Association) and other publications. The Department was also responsible for arranging and maintaining the Society's collection of crude drugs and the herbarium. "We believe this collection to be as complete as any in the world, and it is right and proper that it should be maintained for reference and research." A further responsibility was to arrange evening scientific meetings, discussion groups, exhibitions and symposia and in promoting and correlating research in other institutions through the advisory committee and the specialist science committees. The Department had enhanced the Society's prestige and the public-relations element was "not without some considerable importance."

Some time ago the Council had set up its Practice of Pharmacy Committee, with wide terms of reference, to undertake a complete survey of pharmaceutical practice. The work which had been "quite formidable," since it had to review every facet of a changing profession, was now nearing completion, and would be placed before the membership some time in 1961. "We have approached the problems in an attempt to lay down some sort of worth-while guidance. We have examined what is good and what is not so good in present-day practice, and in our recommendations have aimed at

providing a uniform minimum standard in our professional work — standards that will reduce the risk of error whilst leaving little doubt as to the correct procedure in both usual and unusual instances." To some, Mr. Reid thought, the recommendations might appear elementary, but every item was there for a good reason, and standards varied considerably.

Mr. Reid added a word or two about the Publicity Committee which had been set up by the Council in February 1959.

To advise upon the methods which should be used to bring to the notice of the public the rôle of pharmacy, its educational and professional standards, its organisation, its scientific achievements and its contributions generally to the public welfare and to improve mutual communications and understanding between the Society and its members.

Three subcommittees had been appointed to speed the work, and the Council had recently received an interim report. Several recommendations had been passed to the appropriate committees of the Council. They had "tackled a biggish job in a forthright manner." Mr. Reid reminded members that a Commonwealth Technical Training Week was to take place from May 29 to June 4 and said it was hoped that the branches of the Society would assist in every way possible. The Society would help financially where necessary, and suitable display material and attractive literature were being prepared.

Control of Medicines

Finally, he dealt with the evidence submitted by the Pharmaceutical Society to the interdepartmental working party on legislation concerning medicines. The Society had pointed out that legislation relating to medicines was to be found in a variety of Acts of Parliament, partly because of developments that could not have been foreseen, and partly as the consequence of a piecemeal approach to the question of control. "We suggest that the approach should be that medicines should be subject to control as a general principle to which exceptions should be made, rather than the reverse principle which applies at present." Substances used for medicinal purposes were by their nature liable to be harmful if abused, and legislation should provide for control over medicines as a class. Their preparation and distribution should be in the hands of qualified persons, with exceptions only where the balance of public advantage lay in favour of a relaxation. Legislation should provide for a separation of the control of medicines from the control of other substances and for it to be vested in the Ministry of Health, the Secretary of State for Scotland and the Minister of Agriculture, Fisheries and Food, who should have power to make rules dealing with, among other things, the introduction, composition, production, identification, purity, claims, advertising and distribution of substances and preparations used for the prevention or treatment of human or animal ailments. There should be established a Medicinal Substances

Control Commission to advise the Ministers on those matters. The provisions of the National Health Services Act, 1946, and National Health Services (Scotland) Act, 1947, formed an integral part of the health service legislation and should remain in that context.

Control of Pharmacies

Further suggested modifications fell into two classes. The first class would require:

that substances newly introduced as medicines should be supplied only on prescription until such time as there was sufficient evidence to justify release from such control. That the retail sale of medicines other than in pharmacies should be permitted only in businesses that satisfied certain conditions. That the manufacture and wholesaling of medicines should satisfy requirements in regard to qualified personnel, and that the preparation and supply of medicines in hospitals should be under the control of pharmacists.

Modifications in the second class would ensure that bodies corporate should provide in the Articles of Association for the appointment of a superintendent pharmacist, who should be a director, and the observance of the legal and professional obligations of pharmacy. Provision should be made for the Society to be notified immediately a person had been a superintendent of a body corporate ceased to act in that capacity. The use of the term "chemist" or other restricted term in the name of a body corporate should be prohibited. That a director of a disqualified body corporate should not be permitted to act as a director of any other body corporate carrying on business under the Pharmacy Acts, and a body corporate whose premises have been disqualified should not be allowed to register other premises which, by virtue of their geographical position, could reasonably be regarded as replacing those disqualified. Power should be given to the Society to refuse registration of premises or to discontinue registration of premises where there was reasonable ground relating to the owner or the premises for taking that course. That it should be an offence to sell a poison for resale by retail unless the purchaser was entitled by law to sell it by retail. That Inspectors of the Society should have the same power to enter any premises where poisons are made or sold as they have to enter registered premises. Unqualified persons should not be permitted to use descriptions such as "drug store," "medical hall" and "chemists' sundries" in connection with the retail sale of goods.

Opening the discussion, MR. N. HERDMAN, Edinburgh, asked if, in the rehabilitation of the Society's premises, any provision had been made for the pharmacist to meet and entertain friends to refreshments, saying that it should be possible as in the case of other learned societies in London. Mr. Reid replied that the Council had not yet been able to take firm decision on that matter; the first call was for adequate administration facilities. In Bloomsbury Square it might be possible to develop the site in the future, and Mr. Herdman's particular point had not been lost sight of. MR. W. F. STEWART, Bathgate, pointed out that there was

control of medicines, and asked about control of pharmacies. THE PRESIDENT said that the limitation of pharmacies, though attractive, was not so simple. What had to be considered was the provision of an adequate service. Because of the changing set-up, there were today many pharmacies that would not find a successor. The legislation that had been suggested to the interdepartmental committee would be for the benefit of pharmacy. A solution might be for two adjacent pharmacies to combine to form a single unit. Some cities and towns had "group" shops, which provided a round-the-clock service. MR. C. G. DRUMMOND, Edinburgh, said that, in watching the development of the educational policy, he felt concern at the suggestion in some quarters of introducing a diploma in colleges of technology, and the possible recognition of such diplomas to replace the Society's own diploma. The Society's Education Committee had suggested internal examinations. Was it the Society's intention to recognise a degree and diploma of technology? In reply, MR. REID said that careers masters were attracted more to the degree, and more and more colleges were changing to the external London degree, a change that enhanced the status of the teacher. The Society's diploma would continue. Neither the Education Committee nor the Council had any intention of discarding it. There were no diplomas of technology in pharmacy. MR. SWANSTON asked whether the increased demand for the degree would cause the graduate to fight shy of retail pharmacy? MR. REID said that it was the Society's aim to provide the highest professional services in retail pharmacy. In a survey of degree students, asked what they intended to do on graduating, 99 per cent. had wished to go into research, whereas only about 5 per cent. were capable of carrying out such work. About 10 per cent. were attracted to industry and hospital pharmacy. Retail pharmacy at the present was the most attractive, but suffered somewhat from the peak salary being reached in a comparatively short time. Asked about the possibility of refusing to register premises, MR. REID said that it was impossible to refuse to register premises, but after investigation by another committee it was possible to withdraw registration.

Assistants to Pharmacists

MR. J. A. MYERS, Edinburgh, asked if it would not be more useful to publish a report of the work now proceeding in the Department of Pharmaceutical Sciences, and not to wait until it was finished. THE SPEAKER replied that the personnel employed was somewhat limited, and the difficulty arose in getting the work done. Some of the work might well be undertaken by members engaged in retail pharmacy, since much of it was not industrial or academic. Asked about the examinations of the Society of Apothecaries and the possibility of holders of the Assistant-in-dispensing certificate being admitted to registration as pharmaceutical chemists, MR. REID said that there was no such possibility, since educationally it was so much lower. The examination was to certify persons as being capable of acting as assistants to pharmacists.

ASPECTS OF INTERNATIONAL PHARMACY

Federation's president addresses Liverpool chemists

"RETAIL pharmacy as our children will know it will be very different from what it is today" said SIR HUGH LINSTEAD addressing a meeting of the Liverpool Chemist's Association and Branch of the Pharmaceutical Society on January 23. Sir Hugh, who is president of the International Pharmaceutical Federation, was speaking on "Some Aspects of International Pharmacy." He said there were three obvious currents that would affect the pharmacy of the shop. Industry, as represented by proprietary medicines; social security and the closer association of the State and the profession through the National Health Service; commercialism, as represented by the large American stores. He then described the extremes of State pharmacy as represented by Poland and Jugoslavia and the system of private pharmacy in Denmark and Sweden. In Poland, the pharmaceutical industry was organised under the Ministry of Production and yearly the Ministry of Health submitted a list of drugs and quantities needed during the coming year. These were produced at factories from which the local pharmacies drew what they required. Prescriptions were written in Latin and the patient paid about 20 per cent. of the cost. Large quantities of vegetable drugs were used. Pharmacists were salaried civil servants starting at £30 a month increasing to £40 a month. Sir Hugh added that he understood the salaries had been increased by 50 per cent. starting from the beginning of 1961. In Poland, the target was one pharmacy to 10,000 population, and when that was achieved the pharmacist might get another 50 per cent. increase in salary. Pharmacists however were purely technicians and did little more than dispensing; they did no analysis and there were no sales of dietetic products, cosmetics or optical work done in the pharmacies. Sir Hugh went on to outline the system of training which, in Jugoslavia, was a little more elastic than in Poland. 70 per cent. of the pharmacists in Jugoslavia worked in hospitals and retail pharmacies, 10 per cent. in laboratories, 8 per cent. in teaching and 8 per cent. in administration. Furthermore 80 per cent. of all pharmacists were women. He suggested that even with their improvement on the Polish system, it was doubtful if pharmacy in Jugoslavia was an attractive career for men with family and other financial responsibilities.

Denmark's Way

Sir Hugh went on to describe the system in Denmark, where the pharmacies were privately owned. There were 354 pharmacies serving a population of four-and-a-half million, an average of one for well over 10,000 population. One development was that pharmacists were allowed to own drug stores. "The Danes have said that with the limitation of the number of pharmacies there must be some place where ordinary drugs can be sold, and the man to keep an eye on them is the stores in Denmark. However, the phar-

macist." There were 821 drug macists did not get away with those privileges without paying a price. The Minister of Health set high standards for the conduct of each pharmacy, prescribing the number of rooms, equipment, rotas, stocks to be held and staff. All specialities had to be registered by the State and it was difficult to get a new speciality registered when there was already a corresponding one. "There is a very much closer control of the actual operation of the shop than you would ever think possible in this country," said Sir Hugh. The pharmacists of Denmark and Sweden had decided that the best way to meet the needs of pharmacy and the public was by creating a non-profit making association to provide the public service and on their initiative a central pharmacy fund was created by law. Every pharmacy paid a basic charge of 5 per cent. on net sales over £7,700; a sales charge of four per cent. on gross turnover above £7,700; and a net charge on profit earned, on a sliding scale. The pharmacy fund was used to subsidise pharmacies whose turnover was less than half the average net turnover of all pharmacies and which might otherwise be uneconomic, to make grants to offset high rents, to refund half the establishment and maintenance expenses, and to pay part of the pen-

sions of pharmacists. When the owner of a pharmacy died the promotion board submitted to the Minister three names and he advised on the one to be chosen for the licence. As a result a pharmacist would be lucky to get a pharmacy before he was about fifty.

Sweden had gone a stage further and was now setting up a central manufacturing organisation which was beginning to make "own name" proprietaries. That added to the Danish system, made it self-contained, the manufacture, distribution and retailing all being controlled by pharmacists, although capable of being taken over by the State in the event of political upheaval. Concluding Sir Hugh urged pharmacists to make themselves indispensable to the general practitioner and place themselves in the position of being able to advise him objectively. He urged they should keep themselves up-to-date and read the medical journals, "You have to establish good relationship with the medical profession."

MR. C. W. ROBINSON, who presided at the meeting, handed Sir Hugh a cheque for £200 for the Society's benevolent fund. This was made up of £193 proceeds of the recent dance organised by the social committee and the balance from the Liverpool Chemists Golfing Society. SIR HUGH LINSTEAD, in expressing thanks, commented: "£200 is an extremely useful donation." PROFESSOR ANDREW WILSON proposed, and MR. G. L. CHUBB seconded, the vote of thanks.

BRANCH EVENTS

ROMFORD

Benevolent Fund's Gain

A RAFFLE for the Pharmaceutical Society's Benevolent Fund, always a feature of the annual dinner and dance of the Romford and District Branch, resulted in a gain to the Fund from this year's event, held on January 18, of £32 12s. That was an advance on last year's contribution, though illness had reduced the number of those present. Speeches were brief and informal. Guest of the evening was the vice-president of the Society (Mr. H. S. Grainger), who responded to a toast to "The Guests" proposed by the Branch chairman (Mr. L. G. Minter) who also acknowledged the generosity of fifty-three companies who had between them provided raffle prizes.

REIGATE AND REDHILL

A Coroner's Experiences

SOME of the unusual events that had occurred during his forty years as a coroner in London, supplemented by an explanation of the office of coroner, were told by SIR BENTLEY PURCHASE when he addressed a meeting of the Reigate, Redhill and District Branch of the Pharmaceutical Society in Horsham on February 9. Sir Bentley's subject was "The Experiences of a Coroner," and more than a hundred members and guests were present to hear it. He said that, when he began his work in London, there were seven coroners. Today there were only three, but with modern facilities they were able to handle the great London area with equal facility, and there had been great improvements

in their working conditions. In the early days of the century a practising coroner might well have had no qualification other than that of practical experience. A development that was causing concern today was that about 30 per cent. of deceased persons were cremated and that the increase in embalming utterly vitiated further investigation on the occasions when that was called for. Sir Bentley said that pharmacists had only exceptionally appeared in his courts. His experience was that the record of the pharmacist in exercising care in the handling and dispensing of drugs was extremely good. MR. F. G. LEWIS, Reigate, proposed a vote of thanks to the speaker and to CIBA Laboratories, Ltd., for the facilities afforded to the meeting.

SOUTHAMPTON

"Impressive" Opportunities

COUNCILLOR W. GREENAWAY (mayor of Southampton) praised the pharmaceutical profession when he spoke at the annual dinner and dance of the Southampton Branch of the Pharmaceutical Society at Southampton recently. Councillor Greenaway said he was especially impressed by the educational work of the Pharmaceutical Society and the opportunities it offered to young people. The attendance of 250 at the function included members of the Bournemouth and Portsmouth branches. The toast "Our Guests" was proposed by M. E. S. Bonnar (chairman, Southampton Branch). DR. E. L. McQuitty (chairman, Southampton division, British Medical Association) replied.

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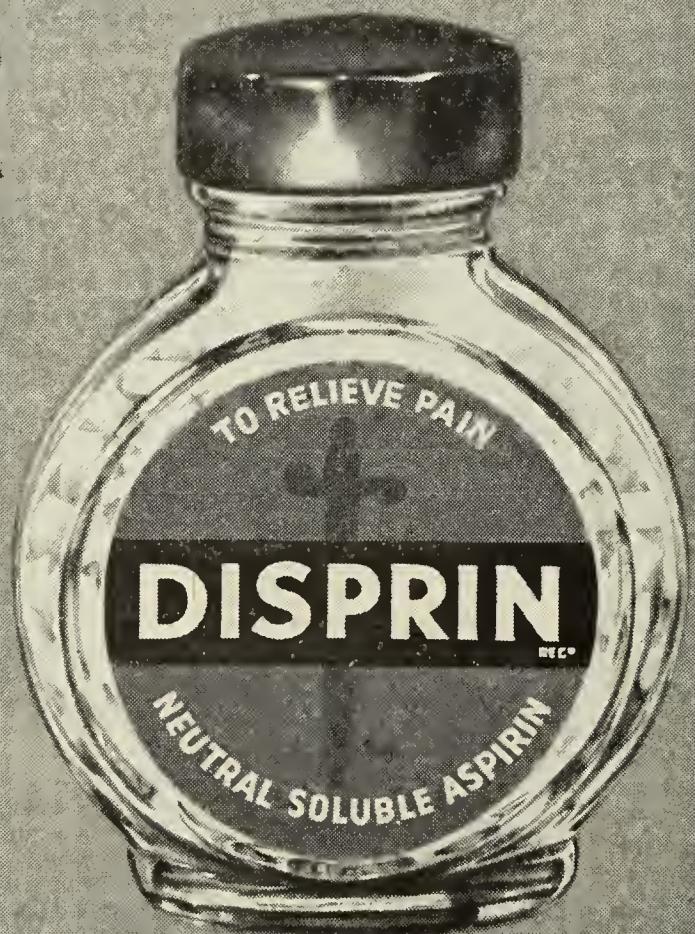
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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 15: There were no outstanding features in the CRUDE DRUGS market during the week to relieve the current quiet spell.

It was noted that shippers of Portuguese ERGOT have lowered their quotations to a point which brings them into line with the level quoted by the London market during the past few months. Brazilian MENTHOL was easier by sixpence a lb. but Chinese material was maintained at the previous week's level. Spot NUX VOMICA appeared to be cleared but shipment offers were available from India, where export licences for the beans are still required, but are more readily granted now. There was a parcel of American LOBELIA HERB on the spot, but the price was high (although in line with the replacement value) when compared with last year's rates. Genuine as imported TOLU BALSAM was unobtainable on the spot and there were no offers for shipment. Indian CELERY SEED was 5s. lower for shipment at 140s. per cwt., c.i.f. It is reported that the National Chemical Laboratories, Poona, India, has developed a suitable substitute for CARNAUBA WAX. The wax is extracted from sisal waste obtained from the separation of sisal fibre from the leaves.

Among ESSENTIAL OILS, CITRONELLA continued to ease, with Ceylon down twopence per lb. in both positions, and Formosan about threepence lower for shipment. LEMONGRASS for shipment was lower by three-halfpence per lb.

PHARMACEUTICAL CHEMICALS were unaltered on the week, but it is expected that QUINIDINE will be marked up by about 5 per cent. because of the revaluation of the German and Dutch currencies.

Pharmaceutical Chemicals

ACETIC ACID. — B.P. glacial, minimum terms, £97 per ton naked; technical 80 per cent., £77; pure, 80 per cent., £83. Carboys and demijohns are £21 per ton extra.

BISMUTH SALTS. — Prices (per lb.) in packages over 2-lb.:—

	28 lb. to 1 cwt.		1 cwt.		5 cwt.	
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
CARBONATE	..	20 6	20 0	19 6		
SALICYLATE	..	20 3	19 9	19 3		
SUBGALLATE	..	19 9	19 3	18 9		
SUBNITRATE	..	18 6	18 0	17 6		

The AMMONIUM CITRATE is 55s. per lb. and SODIUM TARTRATE, 35s. in cartons for 28-lb. lots.

CARMINE.—70s. per lb. for 1-cwt. lots.

CHINIOPHON.—B.P. 1948, 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

CORTISONE.—One-kilo lots, ACETATE, 8s. 6d. to 9s. per gm. HYDROCORTISONE, ACETATE OR ALCOHOL, 9s. per gm.

CREAM OF TARTAR.—Home trade:—1-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4 cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.).

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

DIHYDROXY-ACETONE.—Per kilo £9 for minimum 1-kilo lots.

EPHEDRINE. — ALKALOID nominally 6s. 6d. per oz., SULPHATE, 4s. and HYDROCHLORIDE, 3s. 3d. per oz.

HEXAMINE.—B.P., 1s. 11½d. per lb. for 1-ton lots, delivered in 1-cwt. kegs. Technical is threepence per lb. less.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheeles from 3s. 10d. to 4s. 9d.

HYDROQUINONE. — One-cwt. lots, 11s.; 1-ton, 9s. per lb.

HYOSCINE HYDROBROMIDE.—Per oz., 102s.

IRON SALTS.—GLUCONATE, B.P.C., 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P., crystals, 9½d. per lb. in 28-lb. lots; 1-cwt., 57s. 6d. per cwt., 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED, 1s. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt. 3s. 6d. OXIDE RED PRECIPITATED, B.P.C., 1949, 1-cwt. 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. AMMONIUM CITRATE, scales, 4s. 4d., granular, 3s. 6d. per lb. (5-cwt. lots). AMMONIUM SULPHATE, 1-cwt., 1s. 10d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

ISOPRENALINE SULPHATE. — (Per gm.), 100-gm. lots, 1s. 6d.; 500-gm., 1s.; 1-kilo, 9d.

LACTOSE. — B.P., in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals, 225s. per cwt.

MAGNESIUM CARBONATE. — Per cwt., LIGHT, 129s. or 121s. for 1-ton lots; HEAVY, 170s. for 1-cwt. lots; from 130s. to 135s. for 1-ton lots.

MAGNESIUM CHLORIDE. — One-cwt. 1s. 10d. per lb., 5-cwt., 1s. 7d.

MAGNESIUM DIHYDROGEN PHOSPHATE.—One-cwt. drums, 4s. per lb.

MAGNESIUM HYDROXIDE.—B.P.C., 1-cwt. lots, 3s. 7d. per lb.; 1-ton, 3s. 2d. per lb.

MAGNESIUM OXIDE. B.P.—LIGHT, 1-cwt. lots, 3s. 2d. per lb.; HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE.—B.P.C. (15 per cent.), 3s. 11d. per lb. (1-cwt.).

MAGNESIUM PHOSPHATE TRIBASIC.—One-cwt. sacks, 4s. 5d. per lb.

MAGNESIUM SULPHATE. — B.P. in minimum 1-ton lots varies between £18 and £21 per ton according to size of crystal and manufacture. Exsiccated, £42 per ton. All ex works.

MAGNESIUM TRISILICATE.—(Per lb.). In 28-lb. packages:—28-lb., 4s. 9½d.; 1-cwt. 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

OESTRADIOL.—MONOBENZOATE is 16s. per gm.

PARAFFINS.—Higher. Prices to wholesale distributors are:—Liquid: HEAVY, B.P., £104 17s. 6d. per ton; LIGHT, B.P., £86 15s.; Technical White oils, £78 5s. for the LIGHT and £91 15s. for the MEDIUM. All in 40-50 gall. returnable loaned drums, delivered U.K. Soft: (unchanged) WHITE, medium consistency is £110 15s. per ton and soft consistency £107 7s. 6d. Yellow, £88 10s., all B.P., in non-returnable drums delivered.

PENICILLIN. — SODIUM, POTASSIUM OR PROCAINE, 7d. per mega unit.

PHENYTOIN SODIUM.—One-cwt. lots, 23s. per lb.; less than 56-lb., 25s.

PIPERAZINE.—(50-kilo lots), ADIPATE, 22s. per kilo; CITRATE, 20s. 6d.; HEXAHYDRATE, 17s.; PHOSPHATE, 23s.; TARTRATE, 22s. 6d.

PREDNISOLONE.—Per gm. 17s. 6d.

PREDNISONE.—Per gm. 15s. 6d.

PROCAINE HYDROCHLORIDE.—100-kilo lots, 45s. per kilo.

PROGESTERONE.—Price is 1s. 6d. per gm.

SALICYLAMIDE.—One-cwt., 6s. 3d. per lb.; 5-cwt., 5s. 11d.

SAL PRUNELLA.—Balls, 3s. 10d. per lb. in 1-cwt. lots.

SANTONIN.—5-kilo lots, 400s. per kilo (11s. 4d. per oz.).

STREPTOMYCIN. — DIHYDRO or BASE, 10½d. per gm.

SULPHOCARBOLATES.—SODIUM PHENOSULPHONATE, B.P.C., 1949 (powder), 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949 is 5s. 6d.

Alcohol

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac. 66 o.p.); where the number of proof gall. taken over any one year ended March 31 is 300,000 or over 3s. 10d.; 200,000 to 300,000, 3s. 10½d.; 100,000 and less than 200,000, 3s. 11½d.; 50,000 and less than 100,000, 3s. 11½d.; 10,000 and less than 50,000, 4s. 0½d.; 2,500 and less than 10,000, 4s. 0½d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall. drums there is a surcharge of two pence per proof gall.

Absolute Alcohol, 95·5 per cent., 74·5 o.p., from 4s. 2½d. to 4s. 4½d. for same quantities; the special high strength (99·9 per cent., 75·2 o.p.) from 4s. 4½d. to 4s. 6½d. *Doubly Rectified Alcohol* (S.V.R.) 95·8 per cent., 68 o.p., from 4s. 0½d. to 4s. 3½d. *R. R. Absolute Alcohol* (re-rectified), 99·7 per cent., 75 o.p., 14s. 6d. per bulk gall. net.

Duty is £10 12s. 4d. per proof gall.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, 5s. 8½d.; 100 gall. and under 500 gall., 5s. 11½d.; 40 gall. and under 100 gall., 6s. 3d.; 10 gall. and under 40 gall., 6s. 8½d.; 5 gall. and under 10 gall., 7s. 2d. Strength 64 o.p., 4½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 3½d. more than the above rates with 74 o.p. at 6s. 6d.; 6s. 9d.; 7s. 0½d.; 7s. 6d. and 7s. 11½d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 0d. (tank wagon) for 500 gall. to 8s. 7½d. for 5-10 gall. (in drums) for 64 o.p.

Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 11d.; 100 gall. and under 500 gall. (in drums), 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Mineralised methylated spirit: Strength 64 o.p. in one delivery, 100 gall. and under 500 gall., 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

ACONITE.—Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 15s. 6d. per lb. in bond; shipment, 14s. 7½d., c.i.f.

ALOES.—Cape primes, spot, 180s. per cwt.; shipment, 157s. 6d., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 8s. 6d. duty paid. PERU: Spot, 9s. in bond. TOLU (genuine as imported) nominal; B.P., 12s. 3d.

BELLADONNA.—LEAVES, 1s. 9d. per lb., spot. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot.

BENZOIN.—Sumatra block, spot £22 to £30 as to quality.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS.—Chinesc, on stalk, 150s., duty paid; Ethiopian, 200s.

CARDAMOMS.—Aleppy greens, spot, 13s. 9d. per lb.; shipment, 12s. per lb., c.i.f. Seeds, shipment, 21s., c.i.f.

CHERRY BARK.—Thin natural, 2s. 9d. per lb., as to holder.

CHILLIES.—Nigerian, 185s. per cwt. Mombasa, 350s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 3½d.; 3 O's, 4s. 10½d.; O, 4s. 9d.; quillings, 3s. 1d.; featherings, 1s. 6d.

CLOVES.—Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. 7½d., c.i.f.

DIGITALIS.—*Purpurea* for shipment, old crop, 11d.; new crop, 2s. 4d. per lb., c.i.f.

ELEMI.—Spot cleared. Shipment, 1s. 11d. per lb., c.i.f.

ERGOT.—Portuguese 9s. per lb., c.i.f., for prompt shipment; spot, 9s.

FRANGULA.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 150s. per cwt.

GINGER.—African, spot, 155s.; new crop for shipment, 135s. per cwt., c.i.f. Jamaican No. 3, spot, 210s.; shipment, 190s., c.i.f. Cochin, shipment, new crop, 120s., c.i.f.; spot, 140s. (per cwt.).

IPECACUANHA.—For shipment, c.i.f., per lb.—Costa Rican, 68s.; Nicaraguan, 66s.; Matto Grosso, 51s. Spot: Matto Grosso, 53s. 6d.; Colombian, 54s.

JUNIPER BERRIES.—Italian, 90s. per cwt.; German, 130s.

KARAYA.—No. 1 gum, spot 325s. per cwt. nominal; No. 2, 220s.

KOLA NUTS.—Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LINSEED.—Whole, 70s. to 75s. per cwt.; crushed, 105s.

LIQUORICE.—Natural root: Persian on the spot, 40s. per cwt.; other varieties cleared. Anatolian decorticated, 175s. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—American spot, 8s. 9d.; shipment, 8s. 3d., c.i.f., per lb. Dutch not offering.

MACE.—Whole pale blade, 23s. 6d. per lb. spot.

MENTHOL.—Chinesc: spot, 86s. per lb., duty paid; shipment, 77s. 6d., c.i.f. Brazilian, 53s., in bond; shipment, 52s., c.i.f. Formosan, 54s., in bond.

MERCURY.—About £69 per flask of 76-lb.

NUTMEGS.—West Indian 80's 12s. per lb., spot; sound unassorted, 9s. 3d.; defectives, 6s. 9d.

NUX VOMICA.—Indian quoted at 80s. per cwt., c.i.f., subject to export licence; spot cleared.

ORANGE PEEL.—Spot: Sweet ribbon 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 3d.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PAPAIN.—Tanganyikan, 12s. per lb., c.i.f., for grade one; spot 15s. Ceylon all grades nominal.

PEPPER.—White Sarawak, spot, 3s. 10d. per lb.; shipment, 3s. 10d., c.i.f. Black Sarawak, spot, 3s. 1½d.; shipment, 3s. 0½d., c.i.f. Black Malabar, 420s. per cwt. spot, and 355s., c.i.f.

PEPPERMINT.—Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 190s. per cwt., spot; shipment not quoted. *Peltatum*, 375s.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLIA.—Spot nominal; shipment, 122s. 6d. per cwt., c.i.f.

RHUBARB.—Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 147s. 6d. per lb.

SARSAPARILLA.—Jamaican native red spot, 2s. 9d. per lb.; shipment, 2s. 3d., c.i.f., nominal.

SEEDS.—(Per cwt.). ANISE.—Spanish, 195s., duty paid. CARAWAY.—Dutch, 165s., duty paid. CELERY.—Indian, 150s., spot; shipment, easier at 140s., c.i.f. CORIANDER.—Moroccan, 117s. 6d., duty paid; shipment, 110s., c.i.f. CUMIN.—Indian, 180s., spot; Iranian, 180s., duty paid. DILL.—Indian, 100s., spot; shipment, 77s., c.i.f. FENNEL.—Chinese, 105s., duty paid; Indian, 115s. FENUGREEK.—Moroccan, 67s. 6d., duty paid; shipment, 55s., c.i.f. MUSTARD.—English, 62s. 6d. to 90s., according to quality.

SENEGA.—Spot, 21s. 6d. per lb.

SENNA.—*Tinnevelly* LEAVES, prime

No. 1 cleared; f.a.q. No. 3, 9d. PODS: manufacturing (f.a.q.), 9d. and hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; new crop hand-picked, 4s. 6d. to 6s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s., spot.

SLIPPERY ELM.—Bark, 3s. 6d. lb., landed value.

SQUILL.—White 87s. 6d. per cwt., spot.

STRAMONIUM.—Indian LEAVES 60s. per cwt., spot. Dutch 0·5 per cent. alkaloid 93s., c.i.f.

STYRAX.—Spot, 28s. 6d. per lb., shipment, 26s., c.i.f.

TONQUIN BEANS.—Para spot, 7s. 3d. per lb. Shipment nominal. Angostura 11s.

TRAGACANTH.—No. 1 ribbon, £145 to £150 per cwt. No. 2, £135 to £140.

TURMERIC.—Madras finger on spot is 105s. to 110s. per cwt.; new-crop for shipment, 86s. 6d., c.i.f., quoted.

VAIERIAN ROOT.—Spot: Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 22s. 3d.; 1-cwt., 22s. 6d.; 56-lb., 22s. 9d.; small quantities, 23s.

WAXES.—(Per cwt.). BIES.—Dar-es-Salaam, spot, 470s.; shipment, 440s., c.i.f., Abyssinian, spot 390s. in bond; shipment 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 420s.; shipment, 360s., c.i.f. CANDELILLA, spot, 475s. CARNAUBA, fatty grey, spot, 490s.; shipment, 470s., c.i.f.; prime yellow, spot, 725s.; shipment, 680s., c.i.f.

WITCH HAZEL LEAVES.—Spot cleared; origin not offering.

Essential and Expressed Oils

ALMOND.—Moroccan, 6s. per lb., duty paid.

CAJUPUT.—Spot from 10s. per lb.

CANANGA.—Spot, from 37s. 6d. per lb.

CARAWAY.—Imported oil, 26s. 6d. per lb.

CARDAMOM.—From 330s. per lb. for English-distilled and 260s. for imported.

CASSIA.—Smalls, 18s. 6d. per lb. for 80-85 per cent.

CASTOR.—Home produced B.P. oil, spot, £157 per ton naked ex mill (2-ton lots).

CEDARWOOD.—American rectified 8s. per lb. on the spot.

CELERY SEED.—Dutch oil, 90s. per lb. and Chinese, 65s.

CHAMOMILE.—Smalls 800s. per lb.

CINNAMON.—From quillings, best English-distilled is 50s. per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot, 9s. 6d. per lb.; Seychelles, 8s., spot.

CITRONELLA.—Ceylon, spot, 6s. 7d.; shipment, 6s. 2d. per lb., c.i.f. Formosan, spot, 7s. 3d., in bond; shipment, 6s. 10d., c.i.f.

CLOVE.—Madagascar leaf, spot, 7s. 6d. per lb., duty paid; shipment, 6s. 7½d., c.i.f. Rectified 87-88 per cent., 12s. Distilled bud-oil, English, B.P., 28s. for 1-cwt. lots.

CORIANDER.—B.P. oil, 52s. 6d. per lb., spot.

EUCALYPTUS.—Spanish, 3s. to 3s. 6d. per lb. spot. Chinese, 3s. 3d., all duty paid.

FENNEL.—Spanish sweet, spot, 10s. per lb.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

GRAPEFRUIT.—Florida, 18s. per lb.

JUNIPER.—B.P.C. 1949 oil is from 15s. per lb. on the spot. English-distilled, 150s. JUNIPER WOOD, from 5s.

LAVANDIN.—Spot from 7s. per lb. for original drums.

LEMON.—Californian cold-pressed from 15s. 6d. per lb., spot; Sicilian, 29s.

LEMONGRASS.—Spot, 15s. 4½d. per lb., and shipment, 15s., c.i.f.

PENNYROYAL.—Spot is firm at 15s. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese spot, 38s. 6d.; shipment, 37s. 6d., c.i.f. Brazilian spot, 18s.; afloat, 17s. 6d., c.i.f.; new-crop, March shipment, 17s., c.i.f. *Piperita*: Italian, 48s. per lb., spot. American can from 30s. to 38s. per lb. as to make.

PIMENTO.—English-distilled berry 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots.

PINE.—*Pumilionis* on the spot is 15s. per lb.; *sylvestris*, 5s.; Siberian (*abietis*), 15s.

SAGE.—Spanish, 8s. per lb.; Dalmatian, 19s. 6d. to 25s.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

VETIVERT.—Bourbon spot, 115s. to 120s. per lb.; shipment, 114s., c.i.f.

UNITED STATES REPORT

NEW YORK, MARCH 14: In fine chemicals, CAFFEINE prices were advanced by one company. The price for ANHYDROUS material, for 100 lb. or more, stands now at \$2.40 per lb., up 30 cents. Another company increased the price for SACCHARIN by ten cents per lb. to \$1.50 in lots of 1,000 lb. East African PAPAIN is reported to be available at \$1.75 per lb. compared to \$2.15 for shipment from primary centres. Among the ESSENTIAL OILS a firm tone continues to prevail in LEMON. East Indian SANDALWOOD is strong. Trade in MINT oils remains quiet. Prices are soft in view of fair-sized stocks.

TELEVISION

Figures in the columns represent number of appearances of the product during the week.

	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
March 26 to April 1									
Alka-Seltzer	2	2	2	1	2	1	1	1	2
Anadin	5	3	2	3	3	—	—	4	—
Andrews liver salts	2	1	2	1	2	1	1	3	2
Andrex	3	—	3	—	—	—	—	—	—
Aiskit powders	—	—	—	12	—	—	—	—	—
Bengers food	—	—	—	—	—	2	—	—	—
Bisodol	—	—	3	—	—	—	—	—	—
Cuticura	—	2	—	1	—	—	—	—	—
Delsey	—	—	—	—	—	3	—	2	—
Dramal	2	2	2	2	2	2	2	2	2
Dristan	—	—	1	—	—	—	—	—	—
Eno's fruit salt	—	1	—	—	1	—	—	—	—
Euthymol tooth-paste	1	1	1	1	1	—	—	2	—
Gem shampoo	—	—	—	—	—	—	—	2	—
Haze aerosol	—	1	—	—	—	—	—	—	—
Horlicks	—	1	1	1	1	1	1	1	1
Immac	—	1	—	—	—	—	—	—	—
Imperial Leather	—	—	—	—	—	—	—	—	—
soap	3	5	2	3	1	2	3	2	2
Iodised Balmosa	—	—	1	—	—	—	—	—	—
Kleenex	—	—	1	1	—	—	—	—	—
Maw's baby pants	2	—	3	3	3	—	3	—	—
Max Factor lipstick	1	1	1	1	1	1	1	1	1
Milk of Magnesia	—	1	1	—	—	—	—	—	1
Panets	—	2	—	—	—	—	—	—	—
Pepsodent tooth-	2	2	2	2	2	2	2	2	2
Phillips tonic yeast	—	—	—	—	1	—	1	—	—
Phillips tooth-paste	—	—	—	—	—	—	—	2	—
Polly Roll	—	1	1	1	1	1	1	1	1
Rimmel "beauty	—	—	—	—	—	—	—	—	—
on a budget	1	—	—	1	—	—	1	—	—
Rinstead pastilles	—	1	2	—	1	1	—	—	—
Steradent	—	2	2	2	2	2	2	2	2
Topeat	—	—	2	—	5	—	—	—	—
Topdog	—	—	—	—	—	5	—	—	—
Velouty	—	3	—	—	—	—	—	—	—
Warrick smokers'	—	—	—	—	—	4	—	—	—
cough pastilles	—	—	—	—	—	—	—	—	—

PRINT AND PUBLICITY

PRESS ADVERTISING

BURROUGHS WELLCOME & CO. (The Wellcome Foundation, Ltd.), Wellcome Building, Euston Road, London, N.W.1: Saxon. In *Daily Express*, *Daily Mail*, *Daily Mirror*, *Daily Telegraph*, *Woman*, *Woman's Own*, *Woman's Mirror*, *Belfast Evening Telegraph*, *Edinburgh Evening News*, *Glasgow Daily Record*.

GILLETTE SAFETY RAZOR CO. (Gillette Industries, Ltd.), Great West Road, Isleworth, Middlesex: Gillette No. 37 set (3-piece razor plus 4 Blue Gillette Extra Blades). In *National Dailies*, *Radio Times*, *The People*, *News of the World*, *Sunday Express*.

S. MAW & SONS, LTD., Aldersgate House, New Barnet, Herts: Maw's baby products. In *Woman*, *Nursery World*, *Mother and Baby*, *Parents*, *Nursing Mirror*, *Mother*, *Family Doctor*, *You and Your Baby*.

NEWTON, CHAMBERS & CO., LTD., Thorncliffe, Sheffield: K2r, In *Daily Express*, *Sunday Pictorial*, April-August; Polly Roll, In *Radio Times*, *Woman's Own*, Eire and Channel Island Press, March-September.

PASCALL-KNIGHT, LTD., Oval Road, Croydon, Surrey: Gualime, In *Honey*, *Vanity Fair*, *Harper's Bazaar*, *Vogue*, *Woman and Beauty*, *Housewife*, *Flair*; Guavin. In *My Home*, *Woman and Home*; Guavo and Gualime (composite advertisements). In *Diabetic Journal*, April.

PEPSODENT, LTD., 449 London Road, Isleworth, Middlesex: Harmony. In *Woman*, *Woman's Own*, *Woman's Realm*, *Woman's Day*, *Woman's Mirror*, *Woman's Illustrated*, *Daily Mirror*; Twink Home Perm. In *Woman*, *Woman's Own*, *Woman's Realm*, *Woman's Illustrated*, *Woman's Mirror*, *Valentine*, *Marty*, *Daily Mirror*, *The Belfast Telegraph*, *Thomson's News*, March-April.

RICHARD HUDNUT, LTD., Eastleigh, Hants: Colorific, Bright Future, Style hair preparations. In *Woman*, *Woman's Own*, *Woman's Realm*, *Woman's Mirror*, *Daily Express*, *Daily Mirror*.

RIMMEL, LTD., 62 Baker Street, London, W.1: "Beauty on a Budget." In *Woman*, *Woman's Mirror*, *Woman's Realm*, *Everywoman*, *Woman's Illustrated*, *Woman & Beauty*, *Woman's Day*, *Honey*, *Sincerely*, *True Magazine*, *Mirabelle*, February-June.

PUBLICATIONS

Booklets and Leaflets

ARMOUR HESS CHEMICALS, LTD., 6 Arlington Street, London, S.W.1: Technical bulletin on Propoquads . . . quaternary ammonium compounds, Market development memo No. 12, January 1961, Pp. 4.

ATOMIC ENERGY RESEARCH ESTABLISHMENT, Harwell, Didcot, Bucks: United Kingdom Atomic Energy Authority list of publications available to the public, No. 63, February 1961, Pp. 9. KODAK, LTD., Wealdstone, Harrow, Middlesex: "Kodak School of Industrial and Engineering Radiography," Pp. 16.

LEWIS & RANDALL, LTD. (Commercial Photographers), 200 Stratford Road, Birmingham, 11: "Only photographs tell the business story perfectly." Blotter.

HENRY WIGGIN & CO., LTD., Wiggin Street, Birmingham, 16: Wiggin Nickel Alloys, No. 60, Pp. 36.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of insertion.

Monday, March 20

ENFIELD CHEMISTS' ASSOCIATION, Enfield Arms hotel, at 7.30 p.m. Mr. J. Pickthall (Polak & Schwarz (England), Ltd.) on "Aerosols."

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Bull and Butcher hotel, London, N.20, at 8 p.m. Mr. J. W. Hadgraft on "The [British] National Formulary."

GLASGOW LOCAL PHARMACEUTICAL COMMITTEE, Craig's rooms, 142A St. Vincent Street, Glasgow, at 7.45 p.m. Annual meeting of electors.

PESTICIDES GROUP, SOCIETY OF CHEMICAL INDUSTRY, lecture theatre, London School of Hygiene and Tropical Medicine, Keppel Street, London, W.C.2. Two-day symposium on "Fungicides in Agriculture and Horticulture."

PESTICIDES GROUP, SOCIETY OF CHEMICAL INDUSTRY, Horseshoe hotel, Tottenham Court Road, London, W.1, at 6.45 p.m. Annual dinner.

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, committee room, Greenbank hospital, at 7.30 p.m. Mr. C. Stevens, LL.B., on "Forensic Pharmacy."

ROYAL SOCIETY OF ARTS, John Adam Street, London, W.C.2, at 6 p.m. Miss M. F. Harker on "Photography in Education."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION AND BRANCH, Lambeth Town Hall, London, S.W.2, at 8.15 p.m. Photographic lecture.

Tuesday, March 21

BRIGHTON TECHNICAL COLLEGE SCHOOL OF PHARMACY, Main hall, Richmond Terrace, Brighton, 7. Mr. S. G. Jary on "Disease and Pest Control in Agriculture." Fifth of six lectures.

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome club, at 8.30 p.m. Mr. A. R. G. Chamings (a member of the Society's Council) on "The Pharmacist and the Doctor."

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Hertford secondary school, Mangrove, Hertford, at 8 p.m. Dr. J. J. F. Merry (medical director, Merck Sharp & Dohme, Ltd.) on "Diuretics—their Mode of Action and Clinical Application."

INSTITUTION OF CHEMICAL ENGINEERS, Geological Society, Burlington House, London, W.1, at 5.30 p.m. Discussion. "Some Factors in the Safe Operation of Air Separation Plants."

OXFORD BRANCH, PHARMACEUTICAL SOCIETY, Oxford eye hospital, Walton Street, Oxford, at 8 p.m. Mr. G. Price (Gibey Pharmaceutical Co., Ltd.) on "A Review of Psychiatric Therapeutics."

PLYMOUTH AND DEVONPORT TECHNICAL COLLEGE PHARMACY STUDENTS' ASSOCIATION, Y.M.C.A. building, Cobourg Street, Plymouth, at 7.30 p.m. Film show.

SILE-SERVICE DEVELOPMENT ASSOCIATION, Royal Star hotel, Maidstone, Kent, at 7 p.m. Messrs. K. Firth Butterfield and S. Levington on "Why Change to Self-service?"

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Haekwood hotel, Widmore Road, Bromley, Kent, at 8 p.m. Talk by Sir Bentley Purchas (one of H.M. Coroners).

WEST MIDDLESEX CHEMISTS' ASSOCIATION AND BRANCH, Royal Oak hotel, Ealing Broadway, London, W.5, at 8 p.m. Dr. K. R. Capper on "The 1960 British National Formulary, and How this Differs from other Editions."

WOKING BRANCH, PHARMACEUTICAL SOCIETY, Red House hotel, Woking, at 8 p.m. Annual meeting. Dr. A. H. Beekett on "Science and Scenery in West Africa."

Wednesday, March 22

FOOD GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.15 p.m. Dr. J. Mauron on "Control of the Nutritional Qualities of Milk Protein."

ISLE OF WIGHT BRANCH, PHARMACEUTICAL SOCIETY, Newport, at 8 p.m. Mr. A. R. G. Chamings (a member of the Society's Council) on "The Pharmacist and the Doctor."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Griffin hotel, Boar Lane, at 7 p.m. Annual dinner.

LIVERPOOL BRANCH, GUILD OF PUBLIC PHARMACISTS, Liverpool Royal Children's Hospital, Myrtle Street, Liverpool, at 6.30 p.m. Annual meeting.

LONDON SECTION, SOCIETY OF CHEMICAL INDUSTRY AND LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Technological Research Station, Spillers, Ltd., Station Road, Cambridge, at 7.45 p.m. Mr. E. C. Davies on "Platinum Group Metals."

MANCHESTER PHARMACEUTICAL ASSOCIATION, Woodlands hotel, Timperley, at 8 p.m. Dinner and dance.

READING BRANCH, PHARMACEUTICAL SOCIETY, at 3 p.m. Visit to the National Institute for Research into Dairying, Shinfield, nr. Reading.

SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY, Purley Downs golf club, Purley Downs Road, Purley, at 1.30 p.m. Opening meeting.

Thursday, March 23

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Luton and Dunstable Hospital, at 7.45 p.m. Discussion evening.

DUNDEE AND EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, at 7.30 p.m. Annual meeting. Address by J. B. Grosset (a member of the Society's Council).

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Great Northern hotel at 8 p.m. Address by Mr. T. Heseltine (a member of the Society's Council).

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY, Microbiology Department, Sir John Atkins Laboratories, Queen Elizabeth College, Campden Hill, London, W.8, at 4 p.m. Demonstration meeting.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. G. G. Hammond (director, Bradys & Bliss, Ltd.) on "Pharmaceutical Wholesaling Today."

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, at 3 p.m. Visit to Macarthy's (Wholesale Chemists), Ltd., Scymor Road, Romford, Essex.

Friday, March 24

CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Greyhound hotel, High Street, Croydon, at 8 p.m. Ladies' night. Demonstration arranged by Coty (England), Ltd.

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Annual meeting.

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.30 p.m. Conversazione and exhibition. "Perfumes and Cosmetics—their Preparation and Use."

Saturday, March 25

YORKSHIRE BRANCH, GUILD OF PUBLIC PHARMACISTS, County Hospital, York, at 3 p.m. Dr. H. de B. Warren on "Recent Developments in Psychiatric Drugs."

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED
From the "Official Journal (Patents),"

March 8.

Ion-exchange membranes. Permutit Co., Ltd., and Allen & Hanburys, Ltd. 866,723.

Substituted dinitrobenzamides and veterinary compositions containing them. Salsbury's Laboratories. 866,516.

Veterinary compositions. Salsbury's Laboratories. 866,517.

Therapeutic agent prepared from brain tissues and preparation of such agent. Administrators of the Tulane Educational Fund. 866,509.

Carboxylic acid amides substituted at the nitrogen atom and β -carbon atom. Farbwerke Hoechst, A.G. 866,432.

Substituted benzo-1:3-oxadines. K. Thomae, G.m.b.H. 866,433.

Steroids and the manufacture thereof. Upjohn Co. 866,381.

N-substituted piperidines. May & Baker, Ltd. 866,681.

Veterinary compositions containing quinapyramine salts. Imperial Chemical Industries, Ltd. 866,415.

Chymotrypsin solutions. Armour & Co. 866,423.

Quinone derivatives. Farbenfabriken Bayer, A.G. 866,424.

Antibiotic variotin and the production thereof. Japan Antibiotic Research Association and Nippon Kayaku K.K. 866,425.

Pharmaceutical compositions containing endocellular particles derived from foetal tissue. Laboratories Millot, G. C. Velley and M. Mousalli. 866,483.

Method of preparing complex compounds of metals with organic acids. K. Peters. 866,718.

Production of 2-methyl-5-vinyl-pyridine and 2-methyl-5- α -chloroethyl-pyridine. Distillers Co., Ltd. 866,380.

Synthetic waxes. Henkel & Cie, G.m.b.H. 866,369.

Quaternary ammonium salts. Arnold, Hoffman & Co., Inc. 866,408.

Organic phosphorus compounds containing tertiary amino groups. Upjohn Co. 866,409.

Basic phenothiazine-N-carboxylic acid esters and their production. Badische Anilin & Soda-Fabrik, A.G. 866,729.

Pheno-xazine derivatives. Farbenfabriken Bayer, A.G. 866,418.

Method of recovering gelatin. General Foods Corporation. 866,622.

Pentenyne derivatives and a process for the manufacture thereof. F. Hoffmann-La Roche & Co., A.G. 866,691.

2-halo-1,4-quinones. Farbenfabriken Bayer, A.G. 866,435.

Process for the manufacture of vitamins of B₁₂ group. F. Hoffmann-La Roche & Co. 866,488.

Preparation of a d- α -tocopherol derivative. Vitamins, Ltd. 866,489.

1,2,6-substituted piperidones-(4) and the salts thereof. C. F. Boehringer & Soehne, G.m.b.H. 866,448.

Preparation of vitamin A intermediate. Nopco Chemical Co. 866,398.

Ether-acetals and a process for the manufacture thereof. F. Hoffmann-La Roche & Co. 866,693.

Denaturing of potable alcoholic liquids. T. & H. Smith, Ltd. 866,605.

Steroid compounds and process for their manufacture. CIBA, Ltd. 866,362.

Preparation of steroid compounds. Glaxo Laboratories, Ltd. 866,730.

Steroids. Ormonoterapia Richter, S.p.A. 866,565.

Estratriene derivatives. G. D. Searle & Co. 866,446.

Fungicidal products. Murphy Chemical Co., Ltd., and M. Pianka. 866,506.

3,4-dichloro-tetrahydrothiophene-1,1-dioxides. Diamond Alkali Co. 866,450.

3-chloro-2, 3-dihydrothiophene-1, 1-dioxide. Diamond Alkali Co. 866,451.

Organic phosphoro-thiolate compounds and their preparation. Shell Research Ltd. 866,562.

Thio-phosphoric and thiophosphoric acid esters. Farbenfabriken Bayer, A.G. 866,422.

Systemic fungicidal compositions. Farbenfabriken Bayer, A.G. 866,734.

Dispensing device. Upjohn Co. 866,538.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED
BEFORE REGISTRATION

From the "Trade Marks Journal," February 22

For pharmaceutical preparations and substances for human and veterinary use (5)

EXCAL, B810,266, by Winthrop Group, Ltd., Surbiton, Surrey.

For pharmaceutical preparations for the treatment of bronchial ailments (5)

BRONCODREX, 810,694, by Phillips, Scott & Turner, Ltd., Newcastle-on-Tyne, 1.

For elastic stockings for surgical purposes (10)

SILVER BRAND, 792,866, by J. H. Haywood, Ltd., Nottingham.

For pharmaceutical preparations and substances (5)

TAIN, B811,395, by A. Wander, Ltd., London, W.1. SILCOMPLEX, 812,160, by Silten, Ltd., Hatfield, Herts. DILBRON, 812,387, by T. J. Smith & Nephew, Ltd., Hull, Yorks. DIVAHISTINE, 812,761, by Diva Laboratorium, A.G., Zurich, 37, Switzerland.

For pharmaceutical preparations and substances for human and veterinary use; and sanitary substances and disinfectants (5)

FASCEX, 812,111, SPIRANTIN, 813,495, by Imperial Chemical Industries, Ltd., London, S.W.1.

For optical, surveying, photographic and calculating apparatus and instruments, and parts and fittings (9)

NIKKOREX, 811,934, by Nippon Kogaku Kogyo, K.K., Shinagawaku, Tokyo, Japan.

For combs (21)

LAMWAY, 811,996, by Nellie Suzanne Byrd, Binton, Stratford-upon-Avon, Warwicks.

From the "Trade Marks Journal," March 8

For drugs for industrial purposes (1) and for all goods (5)

Device with word UCLAF, 755,115-16, by Uclaf, S.A., Paris 7e, France.

For essential oils, and essences (3)

UNGLER HYPERESSENCE, B801,033, by Ungerer & Co., Inc., New York, 13, U.S.A.

For soaps, perfumes, non-medicated toilet preparations, cosmetic preparations, and toilet articles (3)

MINER'S AUTOBRUSH, 803,094, by Miner's Make Up, Ltd., Surbiton, Surrey.

For hair tonics (3)

Device with words SILVER CHECK HAIR TONIC, B805,075, by Hughes & Price Proprietary, Ltd., Melbourne, Victoria, Australia.

For soaps, perfumes, non-medicated toilet preparations, essential oils, cosmetics and hair lotions (3)

ACCORD, B805,691, by Wella Rapid, Ltd., London, N.W.1.

For perfumes, non-medicated toilet preparations, soaps, preparations for the hair and shampoos (3)

HELIOBEL, 806,538, by Societe Perma, Paris.

For non-medicated toilet preparations, soaps, perfumes, cosmetics, essential oils, dentifrices, and hair lotions (3)

SWANDOWN FINAL TOUCH, 807,218, by Henry Tetlow Co., Ltd., London, W.10.

For toilet preparations, none being toilet lotions; cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, and essential oils (3)

TREND, 809,365, by County Laboratories, Ltd., Brentford, Middlesex.

For shaving lotions and talcum powder, all being non-medicated toilet preparations; and non-saponaceous shampoos (3)

STAG, B810,092, by Rexall Drug Co., Ltd., Loughborough, Leics.

For non-medicated toilet preparations for men, and toilet articles for men (3)

CADDIE, 814,312, by Ralph William Vincent, Shepperton, Middlesex.

For pharmaceutical preparations and substances for human and veterinary use (5)

CIBA-1906, 782,735, by CIBA, Ltd., Basle, Switzerland. PREGNAGEN, 809,327, by Organon Laboratories, Ltd., London, W.C.2.

For pharmaceutical preparations; plasters, and materials prepared for bandaging; preparations for killing weeds and destroying vermin; and disinfectants (5)

UBIKIN, 810,720, by Espe Fabrik Pharmazeutischer Praparate, G.m.b.H., Seefeld/Oberbayern, Germany.

For all goods (5)

QUINOMENS, 787,401, by International Import and Export Corporation, Ltd., Nassau, Bahamas. Device with letter Z and word ZAMBON, B807,789, by Zambon, S.p.A., Vicenza, Italy. TURATE, 809,315, by C. H. Boehringer Sohn, Ingelheim on Rhine 22b, Germany. PANOPAX, 811,005, by Regent Laboratories, Ltd., London, S.W.17. CLAFLIN, B811,709, by Sterling Drug International, Ltd., London, S.E.1. COVEXIN, 813,846, by Wellcome Foundation, Ltd., London, N.W.1.

For medicinal oil (5)

SASSOL, 803,636, by Gruppo Oleario Novaro & C., Imperia-Oneglia, Italy.

For pharmaceutical preparations and substances (5)

WARREX, 804,534, by Warrick Brothers, Ltd., Coventry. PECTAMON, 809,658, by The British Drug Houses, Ltd., London, N.1.

For stimulants (pharmaceutical) (5)

NIOPULSE, 807,052, by Laboratoires Badrial, Paris 9e, France.

For feeding bottles and parts, feeding bottle teats, baby soothers and teething rings (10) and for hot-water bottles, trays, and dustpans, all of rubber (21)

CANNON, 802,392-93, by Cannon Rubber Manufacturers, Ltd., London, N.17.

For fungicides and insecticides, all for use in the treatment of timber (5)

VESPEN, 807,486, by Pest Control Servicing Company, Aberdeen, Scotland.

For deodorants (5)

TRIODOR, 808,778, by Industrial Perfumes, Ltd., Brentford, Middlesex.

For pharmaceutical preparations and substances, all for use in the treatment of skin irritations and disorders (5)

ENRASH, B810,257, by Lusco Products, Ltd., Toronto, 4, Ontario, Canada.

For pharmaceutical, veterinary and sanitary substances, and infants' and invalids' foods; all in tablet form (5)

REMITAB, 810,439, by Scai, Societe Commerciale d'Applications Industrielles, Glarus, Switzerland.

CONTEMPORARY THEMES

PROLIFERATION of yeast-like fungi during oral antibiotic therapy. *Med. Press*, March 8.

THE DIURETIC RESPONSE to hydroton, mersalyl, and aldactone. *Lancet*, March 11.

OPIUM ALKALOIDS. Some applications of paper chromatography in the detection of. *Bull. Narcs.*, October-December 1960.

THE UNITED NATIONS and the illicit traffic in narcotic drugs. *Bull. Narcs.*, October-December 1960.

VIRUSES and Tumours. *Science*, February 24.

OXYTOCIN. Intransal use of synthetic oxytocin in management of breast-feeding. *Brit. med. J.* March 11.

MANUFACTURE of alkaloids from the poppy plant in Hungary. *Bull. Narcs.*, January-March 1961.

HUMAN PHARMACOLOGY and addictiveness of ethyl 1 - (3 - cyano - 3,3 - phenylpropyl) - 4 - phenyl-4-piperidine carboxylate hydrochloride (R-1132, Diphenoxylate). *Bull. Narcs.*, January-March 1961.

VARIDASE. Pharmacological studies on streptokinase-streptodornase, especially on its toxicity. *Guinna. J. Med. Sciences*, September 1960.

DIQUAT as an arboricide. *Nature*, March 11.

TRYPSIN. Active centre studies in. *Nature*, March 11.

MECHANISM of collagen synthesis. *Nature*, March 11.

ISOLATION of L-Galactose-6-sulphate from a seaweed polysaccharide. *Nature*, March 11.

CLINICAL APPLICATION of a serological method for the determination of human chorionic gonadotrophin. *Nature*, March 11.

TONGUE and brain. *Discovery*, March.

THE RISING THREAT from animal diseases. *Discovery*, March.

CONTROLLED TESTS with three organic phosphorus compounds as anthelmintics against *haemonchus contortus* in sheep. *Vet. Rec.*, March 11.

GAS GANGRENE from adrenalline. *Brit. med. J.*, March 11.

NEW VIRUSES: order or chaos? *Brit. med. J.*, March 11.

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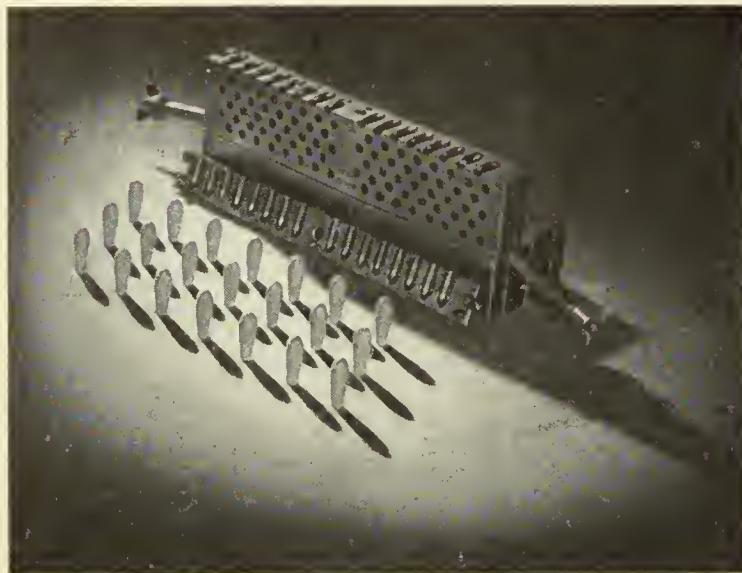
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GLAXO LABORATORIES

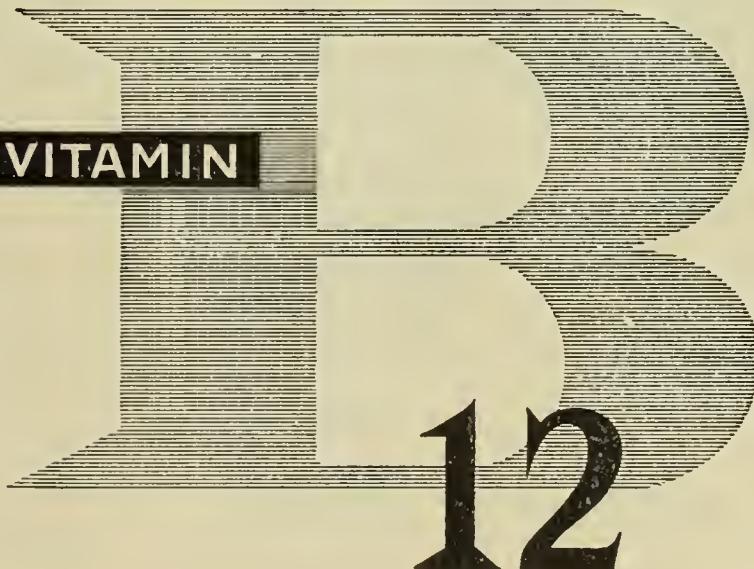
Leading producers of **VITAMIN**

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PURE CRYSTALLINE SUBSTANCE

B₁₂ TRITURATES

B₁₂ SOLIDS



FOR ALL PHARMACEUTICAL PURPOSES

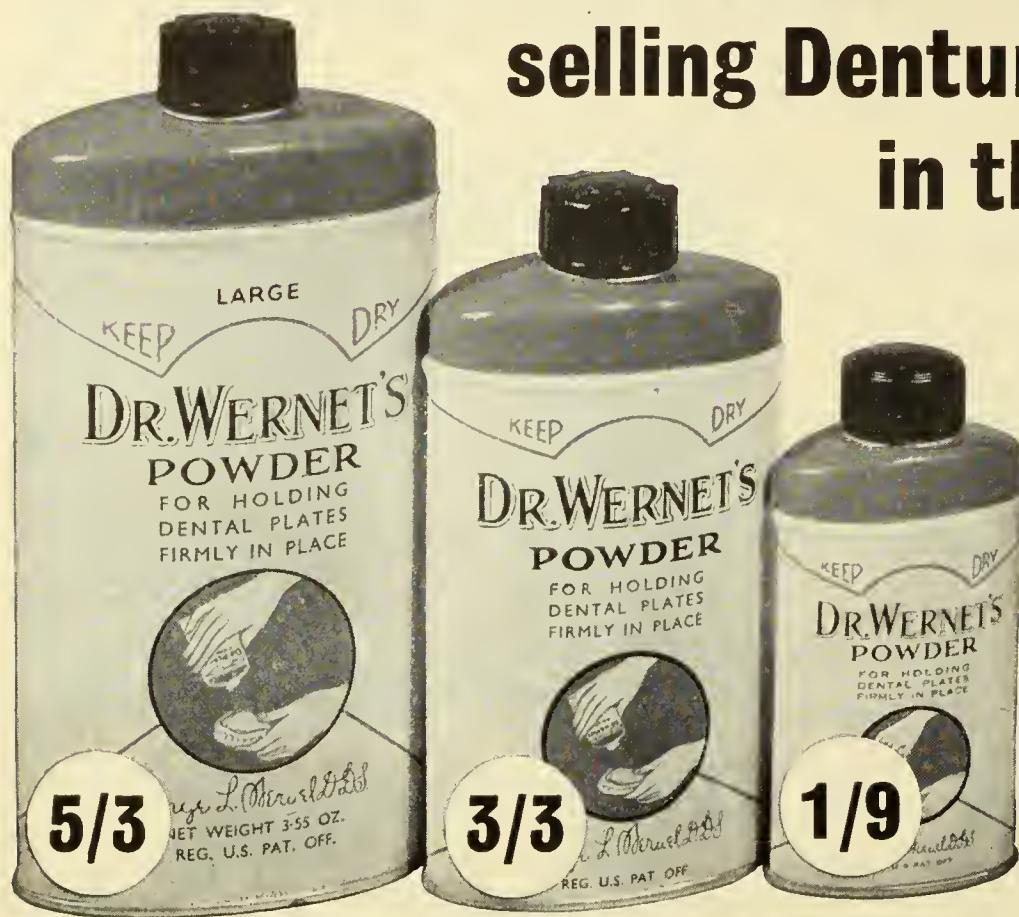
Pure—stable—high biological activity



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Dr. Wernet's Powder - the biggest selling Denture Fixative in the country



The biggest advertising campaign ever for Dr. Wernet's has just commenced. For profit's sake keep your stocks ready to meet the increasing demand. In three sizes 1/9, 3/3 and economy size 5/3.

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- COLOUR FILMS
- BLACK AND WHITE FILMS

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summer
stocks

NOW

and defer
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until
June - July
and
August

Write for full details



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SHELLTOX

with DIELDRIN is a *must*
for repeated steady sales

Dieldrin in SHELLTOX is the most persistent and powerful insecticide in general use. Sprayed on walls and other surfaces SHELLTOX kills crawling and settling insects for up to 3 months (unless washed off). When used as a 'knock-down' space spray it clears a room of flying insects immediately.

SHELLTOX kills:

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Product distributed by
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Romford Laboratories Ltd.
our manufacturing subsidiary company

WHEN ORDERING YOUR DISPENSARY REQUIREMENTS FROM MACARTHYS INCLUDE STANDARD DRUGS AND PHARMACEUTICALS

MACARTHYS

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makes life "bearable" - in the sun

Cartoned tubes packed in gay show-outer of one dozen.

Unique counter display material.

Write to us for a large sample tube and general trade terms of this excellent sun tan cream.

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BRIGHTON - ENGLAND

PHARMACISTS PLEASE NOTE
TAN-GLO travels well

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FRESH
IDEAS
FROM
Scentinel

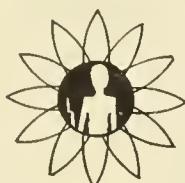


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QUIFF—Liquid Air Freshener in Puffer Bottle and Aerosol. Retail 3/9d.

WHAM—Fly and Insect Killer Aerosol. Retail 3/9d.

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A **NEW** DISPLAY for
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Each brush Guaranteed for 2 years



FREE with PARCEL No. 910 containing...

4 pcs. No. 20 PURE BRISTLE BRUSH
Each in window carton RETAIL PRICE **4/6** EACH
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Each in acetate tube RETAIL PRICE **5/11** EACH
4 pcs. No. 22 PURE BRISTLE BRUSH
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RIGID BOXES
containing 1000
cartons

by

SUTTLEY & SILVERLOCK

ANDOVER, HANTS
TEL. 2234



EASY ACCOUNTING! It's no trouble at all to prepare monthly statements for clients and keep a permanent record of all transactions. Stocktaking, too, is much simpler with this machine.

KEYBOARD SIMPLICITY! This fast, easy-to-operate keyboard increases your selling time and gives better customer service.



FOR AS LITTLE AS £54

Burroughs Cash Registers now double as separate Adding Machines

HERE'S important news for all retailers: Burroughs new Cash Register/Adding Machine does double duty in your shop—saves you time and money, gives better service.

When the day's trading is over, simply lift the top off your cash register and you have a Burroughs precision adding machine for working out your accounts in the office.

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Burroughs

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Telephone: HYDe Park 9861

Accounting Sales and Service facilities from 56 centres in Great Britain and Eire
Factories at Strathleven and Cumbernauld, Scotland

NEW FROM METERCAL

THE $3\frac{1}{2}$ lb CAN!

A whole week's supply in one—saving your customers **10/-!**

Two flavours—chocolate and vanilla—and a
FREE MEASURING SCOOP inside every can!



FOR YOU...
a good profit—
FOR YOUR CUSTOMERS,
a saving!

TRADE PRICE per single can	RETAIL PRICE per can	YOUR PROFIT per can
34/8	49/6	14/10
Per case of six £10/8/0		

**CUSTOMERS WILL BE KEEN TO SAVE 10/-
ON THEIR METERCAL DIET—ORDER NOW!**

- This eye-catching counter card is available FREE to flag your customers' attention and promote sales.
- Keep Metercal on display—and ensure your share of profit from Metercal's massive advertising.



Mead Johnson

12,000,000

readers of the

DAILY EXPRESS

will see this glamorous half-page launching

NEW NIGHT TAN LIQUID CREAM

on 25th April

for every woman who wants to be a golden girl — without the sun...

MOISTURISES AND TANS WINTER-WHITE SKIN
TO SMOOTH GOLDEN BEAUTY!



**NEW!
NIGHT TAN
LIQUID CREAM**

PERFECTED FORMULATION
PLEASE NOTE

Months of careful work and research have gone into the perfecting of our Night Tan preparations. The results find creases, that smudge and soften the skin, outside the drying, alcohol-based products. Furthermore, unlike the alcohol products, which look like water, Night Tan leaves the skin like an oil, ensuring even application and the complete avoidance of patchy results.

RIGHT TAX IS
PROPERTY OWNED
TAXABLE PROPERTY
IN ITS HANDS.
PROPERTY FOR TAX
PURPOSES.

RENTAL 737
1000 3000

RIGHT TURN
TIB AND L
SINCE R
ON YOUR T
IN 19

ELLAMY LABORATORIES LTD 197 235 E

For all your customers who want to be GOLDEN GIRLS!

NEW NIGHT TAN LIQUID CREAM—moisturises and tans the skin without the sun. 2 oz. bottle 7/9. 4 oz. bottle 14/9. Excellent value. NIGHT TAN SUNSCREEN—sunburn protective with built-in tanning action. 50-G plastic tube 6/9. Competes with single action filter products. ADVERTISING—Dramatic $\frac{1}{2}$ page launch, Daily Express. Large spaces to follow, National Press and Women's Magazines!



TREMENDOUS BONUS OFFER! No other product of this type offers you such good bonus terms (see below). What's more, the Night Tan season starts *before* summer, and our exclusive extended payment terms give you splendid early profit *without* tying up your cash!

PERFECTED FORMULATION The high quality of the new Night Tan preparations has been achieved after months of careful work in the laboratory. Alcohol based formulations have been replaced by emulsions which ensure smooth, even tanning without blotching or drying out the skin. Alcohol products have been discarded as unsatisfactory.

NIGHT TAN—SPECIAL PARCEL BONUS

15% EXTRA MARGIN

	£	s	d
6 x 4 oz Night Tan Liquid Cream @ 7/4½d	2	4	3
6 x 2 oz Night Tan Liquid Cream @ 3/10½d	1	3	3
12 x 50-G Night Tan Sunscreen @ 3/4½d	2	0	6
	5	8	0
Less 15% SPECIAL PARCEL BONUS		16	2
	4	11	10*
Plus Purchase Tax	2	4	9
Total Invoice Price	6	16	7
2½% discount for cash on/before 30th June		2	3
	6	14	4
Retail Selling Price	10	16	0
PROFIT	£4	1	8

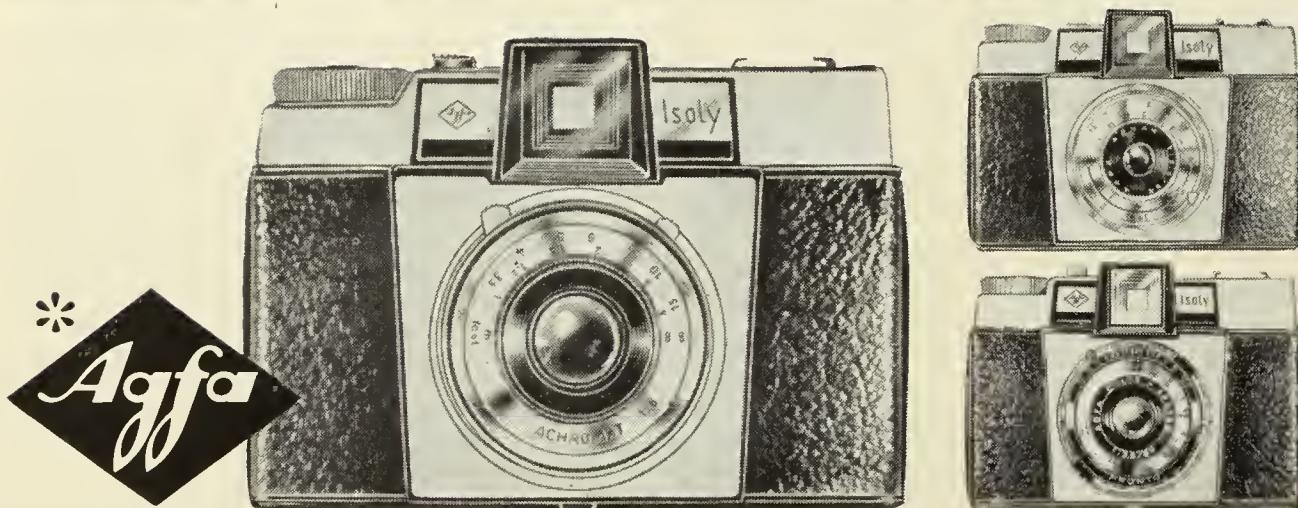
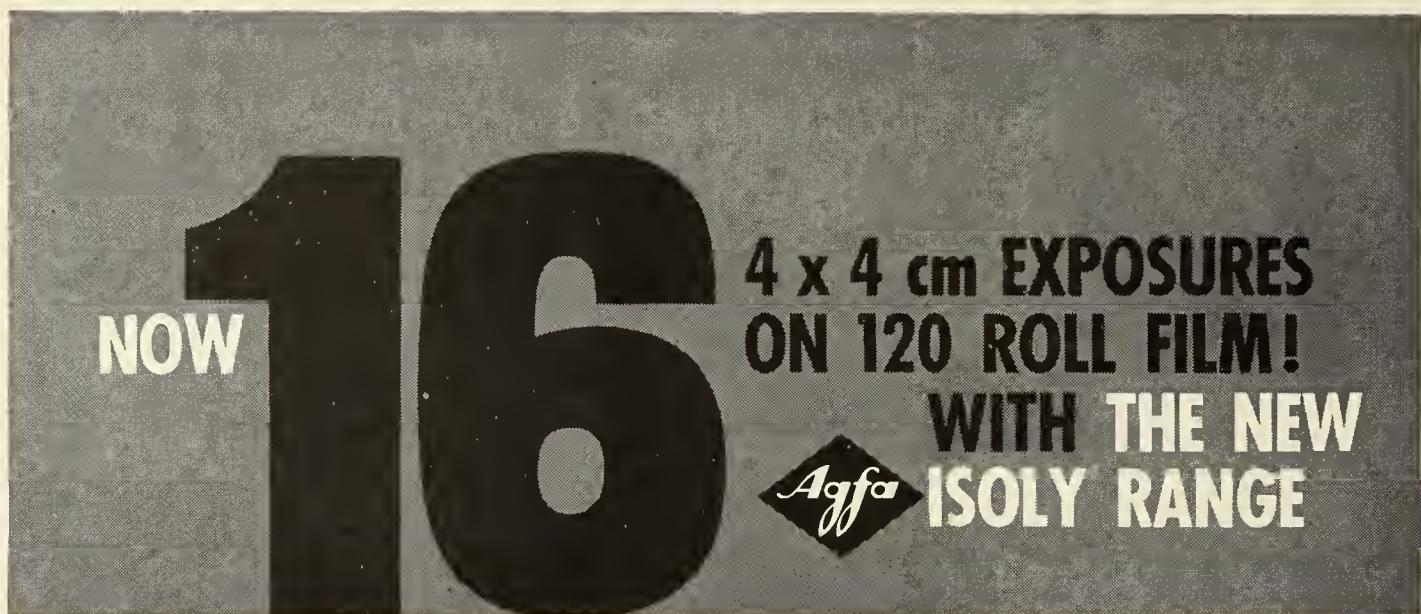
£4·1·8 PROFIT ON INVESTMENT OF £6·14·4 = 60·8%

***3 MONTHS TO PAY AND A 2½% CASH DISCOUNT**

for orders received between 1st April—22nd April. No invoices until 15th June.
2½% cash discount for payment within 15 days of that date.

With all these advantages, why stock anything but Night Tan—order now!

ELLANBY LABORATORIES LTD · 197/215 LYHAM ROAD · LONDON · SW2



The unique new Agfa Isoly range—using the popular, readily-available 120 film—gives 16 transparencies for projection with most 35 mm projectors.

- Neat looking as 35 mm cameras
- Rigid front
- Produces 16 4 x 4 cm transparencies—the popular super-slide size
- Large optical viewfinder
- Outstanding quality Agfa lenses
- Easy swivel film loading
- Double exposure prevention with red warning signal.

ISOLY I Achromat f8 lens. Two stops, f8 and 11. Shutter—B, 1/30th, 1/100th sec. £5 18 6

ISOLY II Agfa Agnar f6.3/55 mm lens. Two stops, f6.3 and 11. Singlo shutter—B, 1/30th, 1/100th sec. £7 16 6

ISOLY III Agfa Color-Apotar f3.9/60 mm lens. Lens stops from f3.9 to 22. Pronto shutter—B, 1/30th to 1/250th. Delayed Action release. £11 15 6

Leather Ever-ready case for all models £2 0 0

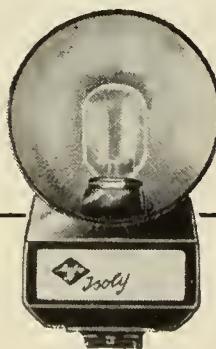
Plastic Ever-ready case for all models £1 3 3

AGFA ISOLY FLASHGUN Practical, push-on flashgun with contact shoe. Takes capless bulbs. For 22.5 volt batteries. Neat design, attractive styling.

Complete with case £1 12 3

* Registered Trade Mark of the Manufacturers, Agfa A.G., Leverkusen/Western Germany

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AGFA
AND
BE
SURE



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It will pay you to concentrate on

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APRIL 1st
ORDER NOW!**

BIG SPACE ADVERTISING
WILL TELL HOUSEWIVES
EVERYWHERE TO

and

MOTHAK AEROSOLS



**MOTHAK
FLY KILLER**

Kills flies, wasps,
midges, spiders. Safe
near food.

3/9



**MOTHAK
MOTH PROOFER**

For clothes, carpets
and furniture.

3/9



**MOTHAK
AIR FRESHENER**

Springtime
fragrance
keeps house
fresh.

3/9

look for the name—

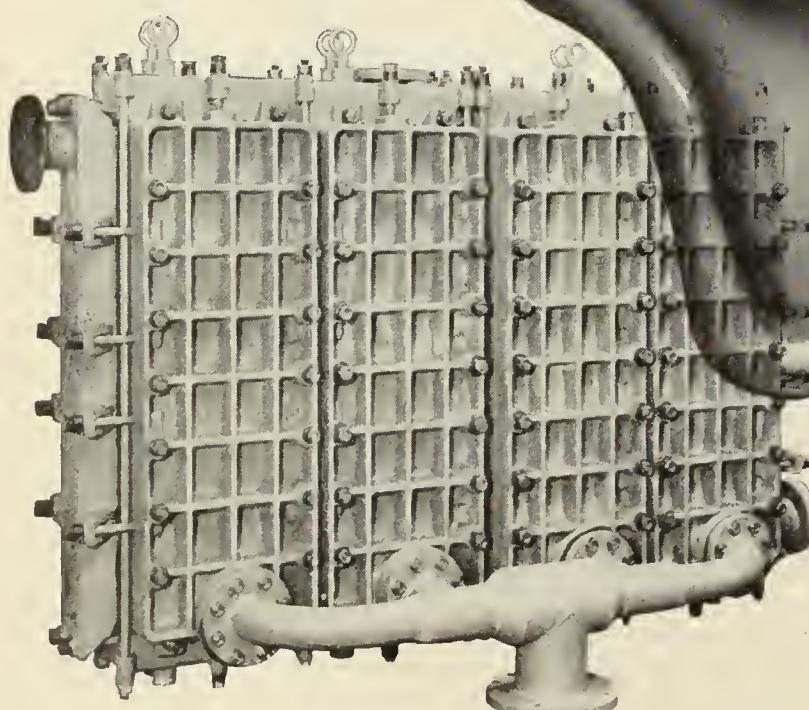
MOTHAKS — by the experts

THOMPSON & CAPPER LTD — LIVERPOOL

MT6

D

HEAT EXCHANGERS FOR VISCOUS FLUIDS



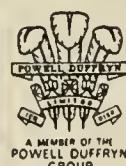
Specially designed to maintain maximum performance with fluids with high viscosities. Standard range of Models Available with Heat Transfer Areas of 45, 90, 135 and 80 sq. ft.

See our exhibits at the Achema Exhibition, Frankfurt, June 9-17 —Stand F7-8.

Powell Duffryn Carbon Products Ltd.

DESIGNERS AND MANUFACTURERS OF
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Since our first batch of Poliomyelitis Vaccine

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Available in 1 ml. single dose ampoules,
6 x 1 ml. ampoules and
10 ml. multi-dose vials.



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PFIZER POLIOMYELITIS VACCINE

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Wherever she is—she's sold on



houseware made from 'Alkathene'



IMPERIAL CHEMICAL INDUSTRIES LIMITED • LONDON • S.W.1

CUMULATIVE LIST OF AMENDMENTS TO THE C.&D.
Quarterly Price List

MARCH 1

Abdine (821 McGlashan) powders single	32 0 gross	8 0 gross	4 }		tablets ..	50	34 0		3 10	†s1s4A
Achromycin (746 Lederle) capsules 50 mgm	25 100 250 mgm	9 6ea 35 8ea 16 25 6ea 100 153 4ea 1000 1480 6ea	14 3 TS 53 6 TS 38 3 TS 230 0 TS 2220 9 TS		Beplex (1352 Wyeth) elixir ..	40 oz	268 0		29 10	
for ear solution powder vial 50 mgm } diluent vial 10 mils }	6	0ea	9 0 TS		Billorat (8 Actina) tripod Stabilo gray	1125/3	6S 8ea	16 9ea	119 9	
for oral suspension 1.5 gm					Bioteric (972 Pharmax) detergent ..	2 kilo	28 0ea			
1 oz	9	6ea	14 3 TS		Bob Martin (143 BM) show ring shampoo ..		19 1	4 91	2 6	
intramuscular vial 100 mgm	4	6ea	6 9 TS		Breck (1169 GS&S) shampoo sachet ..		7 0	1 9	1 0	
intravenous vial 100 mgm	4	2ea	6 3 TS		Bright Future (631 Hudnut) hair lightener ..		48 3	24 1½	7 6	
250 mgm	8	6ea	12 9 TS		Browne (859 Moore) pressurised refill ..		121 9		14 6	p1
500 mgm	15	4ea	23 0 TS		Delete Cirotyl (938 PD) all sizes					
ointment 3% ..	4	0ea	6 0 TS		Cirotyl (938 PD) suspension ..	4 oz	34 0	8 6	4 11½	
1 oz	7	2ea	10 9 TS			80 oz	36 0ea	9 0ea	63 0	
ophthalmic ointment 1% 6	6	0ea	9 0 TS		Colgate (280 CP) dental cream ..		21 6	5 4	2 10	
powder sterilised .. vial	4	10ea	7 3 TS		Colorific (631 Hudnut) colour rinse ..		23 6	11 9	3 11	
oil suspension 1% 6 mils	1	8ea	2 6 TS		Cuckoo (453 Fecher) Cussons (338 Cussons) luxury soaps					
pediatric drops 10 mils	6	6ea	9 9 TS		"Four Diamonds" .. 2084		19 0	4 7½	2 6	
soluble tablets .. 100	35	8ea	53 6 TS		"Hungarian Rhapsody" .. 2160		23 0	5 7½	3 0	
syrup ..	2 oz	9	14 3 TS		"Rhapsody in Black" .. 2164		23 0	5 7½	3 0	
16 oz	68	8ea	103 0 TS		"Rhapsody in Blue" .. 2162		23 0	5 7½	3 0	
tablets 50 mgm	25	9	14 3 TS							
100	35	8ea	53 6 TS							
250 mgm	16	25 6ea	38 3 TS							
1000	153	4ea	230 0 TS							
pediatric drops 10 mils	6	6ea	9 9 TS							
syrup ..	2 oz	9	14 3 TS							
16 oz	68	8ea	103 0 TS							
troches 15 mgm .. 25	3	8ea	5 6 TS							
Achromycin V (746 Lederle)										
capsules 50 mgm	25	9	14 3 TS							
100	35	8ea	53 6 TS							
250 mgm	16	25 6ea	38 3 TS							
1000	153	4ea	230 0 TS							
pediatric drops 10 mils	6	6ea	9 9 TS							
syrup ..	2 oz	9	14 3 TS							
16 oz	68	8ea	103 0 TS							
Albion (339 CG)										
cotton wool ..	1 oz	5	5 ..							
	2 oz	8	8 ..							
	4 oz	14	7 ..							
	8 oz	25	5 ..							
	16 oz	3	10½ea							
Aludrox (1352 Wyeth)										
tablets compound .. 560	306	9	34 1							
Ambramycin (70 Aspro)										
capsules 250 mgm .. 16	25	6ea	TS							
60	92	0ea	TS							
250	372	6ea	TS							
suspension 2.5% 60 mils	9	6ea	TS							
Andre Philippe (48 AP)										
spray lacquer aerosol ..	29	0	14 6	4 9						
Anestan (690 Keldon)										
Delete Asmac (1303 Wander) all sizes										
Asmac (1303 Wander)										
tablets ..	50	54 0	6 0	†s1s4A						
250	213	0	23 8	†s1s4A						
Aspelin (1023 Radiol)										
aspirin liniment dp 16 oz	132	0	16 6							
dp 80 oz	600	0	75 0							
Aureomycin (746 Lederle)										
capsules 50 mgm .. 25	9	6ea	14 3 TS							
100	35	8ea	53 6 TS							
250 mgm .. 16	25	6ea	38 3 TS							
1000	153	4ea	230 0 TS							
ear solution 50 mgm vial	6	0ea	9 0 TS							
ointment 3% ..	½ oz	4	0ea	6 0 TS						
1 oz	7	2ea	10 9 TS							
ophthalmic 1% 6 x ½ oz	6	0ea	9 0 TS							
sterilised vial ..	4	10ea	7 3 TS							
soluble tablets 50 mgm 100	35	8ea	53 6 TS							
syrup ..	4 oz	19	0ea	28 9 TS						
troches ..	16 oz	68	8ea	103 0 TS						
	25	3	8ea	5 6 TS						
Avlosulfon (649 ICI)										
tablets 0.05 gm .. 1000	117	0	14 7½							
Aryston (78 AS&Co)										
falryspun leg tan ..	14	0	7 0	2 9						
Bepile (1352 Wyeth)										
elixir ..	4 oz	42	9 ..	4 9	†s1s4A					
	40 oz	291	0 ..	32 4	†s1s4A					

THIS WEEK'S CHANGES

AT END OF LIST

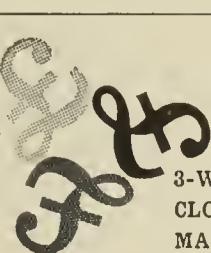
Dalmas (347 Dalmas)	elastic first aid dressings	8 6		1 0	
cabinets ..	No. 1	8 0ea		11 3	
	No. 2	8 0ea		11 3	
	No. 3	7 3ea		10 0	
	refills	6 3ea		8 9	
	surgery cabinet No. 135	9 3ea		13 0	
	waterproof strip dressings				
	1½ in x 1 yd	20 0		2 4	
	2 in x 1 yd	24 3		2 10	
	2½ in x 1 yd	27 9		3 3	
	3 in x 1 yd	32 3		3 9	
	elastic strip dressing				
	1½ in x 1 yd	20 0		2 4	
	2 in x 1 yd	24 3		2 10	
	2½ in x 1 yd	27 9		3 3	
	3 in x 1 yd	32 3		3 9	
Delete Dibexin (938 PD) capsules	packs of 25				
Donnazyme (1071 Robins)	tablets ..	50	144 0	36 0	21 0
		500	1200 0	300 0	175 0
					†s1s4A
Delete Droxalin (976 PS&T)	gel 8 oz and 80 oz				
E.D.P. (436 Evans)	small ..	17 0	4 3	2 6	
Embazin (971 PSMB)	2oz	30 0		3 9	p1s1
	10oz	112 0		14 0	p1s1
	200oz	208 0		26 0	p1s1
	800oz	800 0		100 0	p1s1
Delete Emplets (938 PD)	thyroid ovarian packs of 500				
Ephazone (690 Keldon)					
Ethobral (1352 Wyeth)	tablets ..	250	200 0		22 3
	blue label BPC	2 oz	7 8½ lb		1 3½
		4 oz	7 1½ lb		2 4½
		S oz	6 9½ lb		4 6
		16 oz	6 6½ ea		8 8
	pink label NHS No. 3	2 oz	6 1½ lb		1 0
		4 oz	5 0½ lb		1 10
		8 oz	5 2 lb		3 5



BURROUGHS WELLCOMBE & CO (THE WELLCOMBE FOUNDATION LTD) LONDON



remember 'Marzine' for extra profit
TRADE MARK
all the year round



3-WAY BONUS
CLOSES
MARCH 31st

yellow label ...	16 oz	4 10 1/2 ea	..	6 6	Optabs (175 BCP)	kit pack	..	24 3	6	2 9	pl	
	.. 2 oz	9 4 lb	..	1 7	Orastrep (378 DCBL)	suspension	.. 50 mils	100 0 ..	..	12 6	s4BTS
	4 oz	8 9 lb	..	2 11	tablets	.. 25	110 0 ..	..	13 9	s4BTS	
	8 oz	8 4 1/2 lb	..	5 7		100	31 Sea	..	47 6	s4BTS		
	16 oz	8 1 1/2 ea	..	10 10		500	145 0ea	..	217 6	s4BTS		
Gem (365 Demuth)					Ovaltine (1303 Wander)	chuckles	..	7 2			9	
dry shampoo	..	18 10	4 8 1/2	2 9	Pabalate (1071 Robins)	tablets hydrocortisone	500	2608 0	652 0	380 4	TS	
Geval (746 Lederle)	..	30	11 4ea	2 10ea	Pepsodent (955 Pepsodent)	tooth-paste economy size	..	28 3 1/2	6 8 1/2	3 9		
capsules	..				Persantin (154 B)	ampoules 10 mgm	.. 5	6 6ea	1 7 1/2 ea	11 4 1/2		
Hematest (843 ML)	tablets	.. 50	90 0 ..	..		25	24 6ea	6 1 1/2 ea	42 10 1/2		
Johnsons (672 Johnson)	tablets	.. 50	90 0 ..	..		tablets 25 mgm	.. 30	9 6ea	2 4 1/2 ea	16 7 1/2	
baby napkins 26 x 26 in							200	57 0ea	14 3ea	99 9		
Kasbah (995 Potter's)	kidney remedy	..	20 6 ..	..	Phillips (976 PS&T)	magnesia texture and cleansing cream	..				
	..				Portyn (938 PD)	Kapsseals	.. 30	80 0	20 0	11 8		
Kleinerts (706 Kleinerts)	Viking swim caps	..	12 0	3 0		.. 250	51 Sea	12 11ea	90 5			
Pompadour	..	3021	383 0	19 2 1/2	Potter's (995 Potter's)	skin clear ointment	9 0	2 3	1	6		
Ledermycin (746 Lederle)	capsules 150 mgm	.. 16	25 6ea	..	Primes (1277 VI)	roll	7 6	1 10 1/2	1	0		
	100	153 4ea	..	38 3 TS	carton	..	18 10	4 8 1/2	2	6		
	1000	1480 6ea	..	230 0 TS	3 roll	..	20 10	5 2 1/2	2	9		
..	10 mils	6 6ea	..	2220 9 TS	large	..	36 0	9 0	4	9		
..	.. 2 oz	9 6ea	..	9 9 TS	Primogyn Depot (1107 SAGB)	100 mgm ampoules	.. 3	52 0ea	..	78 0	pls4B	
syrup	..	16 oz	68 8ea	..		20	270 0ea	..	411 0	pls4B		
Lion (995 Potter's)	..				Protogest (208 BW)	vet 100 mils	.. 6	216 0 ..	..	24 0	
cleansing herbs	..				Robinade (285 Colman) sachet	.. 9	4gross	..	1			
LiquiSprayer R (766 Liquinure)	..	33 0ea	..	49 6	Ross (1084 Ross)	entry 1125/3	..					
Loxene (563 Hampshire)	shampoo	.. 2 oz	16 5	4 1	Ross (1084 Ross)	binoculars	..					
	6 oz	31 0	7 7 1/2	2 3	Stepmusr 10 x 50	..	..	..	1023 11		
Macleans (303 County)	..				Stepsun 12 x 50	..	..	..	1041 5		
solid dentifrice chlorophyll	..				Tropical 7 x 40	..	..	..	970 10		
Madribon (1074 Roche)	syrup	.. 50 mils	76 0 ..	..	10 x 50	..	..	..	1131 9		
	500 mils	52 8ea	..	9 6 +s4B	micro-projection attachment	..	..	..	350 0		
Majeptil (971 PSMB)	tablets 1 mgm	.. 50	90 0	22 6	mobile collapsible stand	..	..	..	371 0		
	250	360 0	90 0	52 6 +s4B	Samona (1096 Samona)	tablets No. 2	..					
	5 mgm	260 0	65 0	37 11 +s4B	Sanilav (671 Jeyes)	plastic pack	.. 24	S ..	..	2 9	
	250	186 8ea	21 8ea	151 8 +s4B	Scherk (128 Biometica)	..	..			
Margo's (798 Margolis)	baby powder	..	8 0	2 0	7102							
	12 6	12 6	3 1 1/2	2 0	Simpkin's (1141 Simpkin)	peppermint rolls (rose)	.. 3	0 ..	..	4	
hand cream	..	6 6	3 3	1 3	Skefron (1153 SKF)	.. 100 0	25 0	..	14 7			
hair lacquer aerosol	..	27 6	13 6	4 11	Sparine (1352 Wyeth)	Latabs	.. 20	64 0 ..	..	7 2	pls4B
..	..	11 0	5 6	.. 250	53 9ea	..	..	..	71 8	pls4B	
..	..	3 6	1 9	1 0	SteriShave (438 ER)	razor bath	..	22 0	11 0	3 9		
refill sachet	..	..	..		refills	..	18 0	9 0	3 0		
petroleum jelly	..	9 0 ..	..		Stimplet (1352 Wyeth)	elixir	.. 4 oz	44 0 ..	..	4 11	+s1s4A
	..	18 0 ..	..			40 oz	287 0 ..	..	31 11	+s1s4A	
razor blades blue	.. 25	31 8	7 11	1 6	Suba-Seal (479 WF)	feeding bottle, polythene	.. 4 oz	..	..	1 3	
		(1000)	(1000)			8 oz	1	6	
shampoo	..				Sunnybisk (535 Granose)	small	9 1	11		
egg & lanolin sachet	..	21 0	5 3	4	Swift (581 Haynor)	battery shaver	..	36 3ea	S 10ea	58 10		
	..	41 0	10 3	7	Tattoo (451 F&J)	spiral brush-on mascara	.. 45 0	22 6	..	7 6		
twin pack sachet	..	..	gross	7	Tetracyn (969 Pfizer)	capsules 50 mgm	.. 100	35 Sea	..	53 6	TS
..	..	4 oz	9 0	2 3		250 mgm	.. 16	25 6ea	..	38 3	TS	
medicated	..	..	..	1		1000	153 4ea	..	230 0	TS	
twin pack sachet	..	41 0	10 3	7	intramuscular injection	100 mgm	.. vial	4 6ea	..	6 9	TS	
..	..	9 0	2 3	..	intravenous injection	250 mgm	.. vial	8 6ea	..	12 9	TS	
bottle	..	..	..	1		500 mgm	.. vial	15 4ea	..	23 0	TS
					oral suspension 1.5 gm	..	9 6ea	..	14 3	TS		
					paediatric drops 1 gm	..	6 6ea	..	9 9	TS		
					tablets 50 mgm	.. 25	9 6ea	..	14 3	TS		
						100	35 8ea	..	53 6	TS		
						100 mgm	.. 25	18 9ea	..	28 1 1/2	TS	
talcum powder	..	..	..			100	70 10ea	..	106 3	TS	
bouquet of flowers,			250 mgm	.. 16	25 6ea	..	38 3	TS	
honeysuckle, lily of the	..	..	..			1000	153 4ea	..	230 0	TS	
valley, rose	..	16 8	8 4	2 11		1000	1480 6ea	..	2220 9	TS		
lavender	..	7 2	3 7	1 6								
	..	16 8	8 4	2 11								
tonic hair cream	sachet	.. 1 8	10	3								
	large	7 2	3 7	1 6								
	giant	12 6	6 3	2 6								
Milophyline (346 Dalcs)	ampoules	.. 6	68 0 ..	..							
	48	42 6ea	..	8 6								
Modess (672 Johnsons)	sanitary towels	..	19 3 ..	..							
	cotton wool size 1	.. 12	23 0 ..	..							
	size 2	.. 12	..	2 6								
Mysteclin F (1176 Squibb)	for syrup	.. 60 mils	10 7ea	..	2 11							
	for paediatric drops	10 mils	7 4ea	..	11 0 TS							
Mysteclin V (1176 Squibb)	..	.. 12	20 9ea	..	31 2 TS						
	..	100	166 3ea	..	249 5 TS							
	..	500	780 0ea	..	1170 0 TS							
Navidrex (262 CIBA)	tablets	.. 25	48 0 ..	..	6 0						
	..	100	180 0 ..	..	22 6						
	..	500	72 6ea	..	108 9							
Noshok (453 Fecher)	caustic pencils	..	5 4	1 4	..							
Numorphan (179 BDH)	..				9 1/2							
	Snapsules 1.1 mil	.. 6	90 0 ..	..	..					
	25	288 0 ..	..	..	11 3 DD						
Nystatin (1176 Squibb)	dusting powder	.. 1/2 oz	7 0ea	..	32 5 DD							
Occultest (843 ML)	tablets	.. 50	90 0	11 3							

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SALES DIVISION, LIBERTY 6600, LONDON

'ASMAVAL'

TRADE MARK

	100	153	4ea	..	230	0	TS						
Tetracyc-S.F. (969 Pfizer)	1000	1480	6ea	..	2220	9	TS						
capsules	..	16	26	6ea	..	39	9	TS					
	100	159	2ea	..	238	9	TS						
	1000	1537	0ea	..	2305	6	TS						
Terramycin (969 Pfizer)													
capsules 50 mgm	..	100	35	8ea	..	53	6	TS					
250 mgm	..	16	25	6ea	..	38	3	TS					
	100	153	4ea	..	230	0	TS						
	1000	1480	6ea	..	2220	9	TS						
intramuscular injection													
100 mgm	..	vial	4	6ea	..	6	9	TS					
intravenous injection													
250 mgm	..	vial	8	6ea	..	12	9	TS					
500 mgm	..	vial	15	4ea	..	23	0	TS					
nasal solution	..	5 mils	4	1ea	..	6	1½	TS					
ophthalmic solution													
25 mgm	..	5 mils	5	4ea	..	8	0	TS					
oral suspension 1.5 gm													
paediatric drops 1 gm													
soluble tablets 50 mgm	25		10	3ea	..	15	4½	TS					
syrup 125 mgm/5 mils													
tablets 50 mgm	..	25	9	6ea	..	14	3	TS					
	100	35	8ea	..	53	6	TS						
100 mgm	..	25	18	9ea	..	28	1½	TS					
	100	70	10ea	..	106	3	TS						
250 mgm	..	16	25	6ea	..	38	3	TS					
	100	153	4ea	..	230	0	TS						
	1000	1480	6ea	..	2220	9	TS						
topical powder 3%	..	1 oz	8	0ea	..	12	0	TS					
troches 15 mgm	..	24	3	8ea	..	5	6	TS					
vaginal tablets 100 mgm	10		10	1ea	..	15	1½	TS					
topical ointment	..	½ oz	4	0ea	..	6	0	TS					
	1 oz	7	2ea	..	10	9	TS						
	200 gm	46	0ea	..	69	0	TS						
S.F. capsules	..	16	26	6ea	..	39	9	TS					
	100	159	2ea	..	238	9	TS						
	1000	1537	0ea	..	2305	6	TS						
Thermos (1226 Thermos)													
vacuum jugs	..	54	..	..	..	44	9						
	54Q	..	..	..	..	47	6						
jars	..	..	617	..	..	20	9						
	707	..	..	..	..	32	9						
<i>Delete</i>		613											
<i>Delete</i>		607											
<i>Delete</i>	Trasylol (452 FBA)	2 mils	10										
	Trasylol (452 FBA)												
ampoules 5 mils	..	5	42	4ea	..	63	6						
	25	200	0ea	..	300	0							
Tucal (250 Chelspa)													
linctus	..	4 oz	31	0	7	9	4	6					
	40 oz	23	6ea	5	10½ea								
	80 oz	45	0ea	11	3ea								
lozenges	..	16	0	4	0	2	6						
	69	0	17	3	10	3							
Val-Pak (343 DH)													
large tube	..	24	2	12	1	3	9						
Veedip (1273 Veedip)													
gloves household flesh													
light	..	22	6	1	1½								
medium	..	28	0	1	5								
heavy	..	39	0	1	1½								
old rose	..	24	0	1	2½								
surgeons' latex													
premier quality white		26	6	1	3½								
special heavy weight, white		55	0	2	9								
suprex quality, brown		29	0	1	5								
velvex brown, sizes 5 and 5½													
rough finish	..	42	0	2	1								
smooth finish	..	45	0	2	3								
ice bag 8 in	..	3	6ea										
10 in	..	4	3ea										
Virugon (97 Bayer)													
tablets	..	48	10	Sea	2	Sea	18	8	†				
	500	105	Sea	26	5ea	184	11	†					
Vitalising (1286 VGC)													
(distributors 1141 Simpkin)													
glucose tablets	..	rolls	4	6	..	..	6						
Vitesso (359 DDD)													
shampoo	..	6	10	1	9	1	0						
Vosene (303 County)													
shampoo sachet	..	4	4	1	1	7							
cream sachet	..	4	4	1	1	7							
Wellcome (208 BW)													
pertussis vaccine 0.5 mils	3	45	4	..	..	5	8						
	5 cc	80	0	..	..	10	0						
semen diluent (vet)	50 cc	63	0	..	..	7	0						
staphylococcal toxoid (vet)	100 cc	405	0	..	..	45	0	VPO					
swine erysipelas antiserum (vct)	100 cc	162	0	..	..	18	0	VPO					
	250 cc	346	6	..	..	38	6	VPO					
whooping cough vaccine all sizes													
Winged Lion (995 Potter's)													
compound herbs	..	12	0	3	0	2	0						

Wyovin (1352 Wyeth)	tablets with phenobarbitone												
	50	57	0	..	..	6	4	†s1s4A					
	250	216	0	..	..	24	0	†s1s4A					
Yestos (422 EGC)	irradiated puppy powder												
	8 oz	38	0	..	..	4	0						
	veterinary yeast tablets	100	12	0	..	1	6						
	1000	77	0	..	..	8	6						
	2500	15	0ea	..	..	20	0						
Yestos E (422 EGC)	veterinary yeast tablets	75	32	0	..	4	0						
	250	80	0	..	..	10	0						
	1000	25	0ea	..	..	37	6						

AMENDMENTS TO KEY TO SUPPLIERS:
 (766 Liquinure)=LIQUINURE SALES, LTD., 19 Duke Street, London, W.1. Welbeck 5764.
 (941 Parozone)=PAROZONE CO., LTD., 12 Wellington Street, London, E.16. Albert Dock 5244.
 (973 Pharmethicals)=PHARMETHICALS (LONDON), LTD., Victoria Way, Burgess Hill, Sussex. Burgess Hill 2737.
 (1131 Shulton)=SHULTON (GREAT BRITAIN) LTD., Trevor House, 96 Brompton Road, London, S.W.3. Knightsbridge 3771.
 (1276 Vibac)=VIBAC LABORATORIES, LTD., 90 High Street, Bovingdon, Herts. Bovingdon 3289.

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time.

A=Advanced. *R*=Reduced.

Entries new this week are marked thus:—●

<i>Corr.</i>	Adwin (266 Clarne)	paediatric	..	4 oz	30	0						3	9
		..	..	dp 16 oz	108	0							
		..	..	..	100	80	0						
		..	..	dp 500	27	0ea							
	<i>Delete</i>	Aero-Medic (261 Christy)											
	<i>Delete</i>	Aero-Ped (261 Christy)											
		Aero-Ped (657 IL)											
		<i>Delete</i>	de luxe bottle										
		●	aerosol moist large	..	62	3	..	..				6	11
		●	fly killer large	..	62	3	..	..				6	11
	<i>Corr.</i>	Aqua											

● Color-Match (525 Golden)	33	0	16	6	5	6	tube ..	.. 1 oz	10	10	5	5	1	8
● Depinar (61 APC)	124	0	..	..	15	6	Delete leg tan ..	2 oz	17	1	8	6½	2	8
vial 2 mils .. 1000 mcgm	5 mils .. 2500 mcgm	240	0	..	..	30	0	Penine (1232 T&R)	.. 2 oz					
Corr. Esquire (1113 S&B)	brushless shave ..	18	4	4	7	2	5	Delete Penotrance (1305 WB)	..					
Corr. Flypel (649 ICI)	tube ..	21	0	5	3	2	11	Delete silicone cream all sizes	..					
R Folic acid (413 Lilly)	tablets 5 mgm ..	100	32	0	..	4	0	Delete Philishave (977 PE)	..					
Delete Folvite (746 Lederle)	elixir ..	..	..	..	..	..	..	Delete jet standard model ..	7911					
Hanson (822 McEwan)	Venus scales ..	..	58	6ea	12	2ea	95	6	Delete dual volt ..	7910				
● Hydroderm (837 MSD)	5 gm ..	51	0	..	..	6	4½	Portia (1160 Solport)	..					
15 gm ..	126	0	..	..	15	9	TS	A animal wool ..	.. ½ oz	7	6	..	1	0
Corr. Ilford (645 Ilford)	film HPS ..	..	127	..	..	3	5	R Salicylamide (1305 WB)	1 oz	12	9	..	1	9
120 ..	..	..	..	..	3	5	tablets 0.5 gm ..	.. 100	72	0	..	9	0	
620 ..	..	..	..	..	3	5	500	252	0	..	..	31	6	
Delete I-Sedrin (413 Lilly) compound	..	..	..	..	..	..	1000	480	0	..	..	60	0	
● Jeannie (978 PYP)	dog shampoo ..	15	0	3	9	2	2	Samarilan (1232 T&R)	..					
..	26	0	..	6	6	3	9	R olive oil ..	2½ oz	8	9	..		
..	26	0ea	..	6	6ea	45	0	R	5 oz	14	0	..		
Kodak (711 Kodak)	Brownie movie camera	..	..	..	..	..	..	R	10 oz	24	0	..		
R model 11 f/1-9	156	6ea	39	2ea	345	0	R	20 oz	47	0	..			
movie turret camera f/1-9	310	5ea	77	7ea	645	2	Silcot (786 Macdonald)	..						
A Kodachrome film 828-8	8	3ea	..	11ea	12	9	● sanitary briefs chic ..	..	54	0	2	8	6	11
A 828-12	10	..	10ea	1	1ea	16	6	Corr. Silk 'n' satin (1113 S&B)	..	..	..	..
A (20 exp) K135	15	6ea	1	10ea	24	0	lotion ..	..	18	7	9	3½	2	10
A (36 exp) K135	22	8ea	2	7ea	35	0	Corr. Skof (1113 S&B)	..	10	10	5	5	1	8
A (20 exp) KA135	15	6ea	1	10ea	24	0	sun lotion ..	.. 1 oz	13	11	3	5½	1	10
Corr. Kremi (1113 S&B)	hair tonic ..	36	2	18	1	5	2 oz	.. 20	10	5	2½	2	9	
Corr. Lectricshave (1113 S&B) 1½ oz	15	6	7	9	2	4 oz	.. 34	1	8	6½	4	6		
2½ oz ..	26	4	13	2	4	1	Spratts (1175 SPL)	..						
Corr. Lentheric (753 Lentheric)	Red Lilac soap (3) ..	..	..	..	..	..	A cereal cat food ..	..	7	6	..	..	10	
A Luma (779 Luma) compound ..	17	0	4	3	2	..	A dog cakes 4 x 7 lb ..	..	23	6case	..	7	3	
..	36	6	9	1½	5	..	A mixed ovals ..	..	10	1	..	..	1	1
..	55	6	13	10½	8	9	A ovals ..	..	19	9	..	..	2	1
Corr. Magicurl (1113 S&B)	capsules ..	..	4	8	2	4	Delete puppy biscuits ..	..	10	1	..	..	1	1
..	..	..	12	11	6	5½	Corr. Sta-blond (1113 S&B)	..	..	..	..
A Mansil (786 Macdonald)	cotton wool hospital .. 1 oz	..	5	5	..	..	shampoo powder ..	..	4	5	1	1½	7½	
..	2 oz	..	8	8	..	..	liquid ..	..	11	0	2	9	1	5½
..	4 oz	..	14	7	..	..	sachet ..	..	4	7	1	1½	7½	
..	8 oz	..	25	5	..	..	Trasylol (452 FBA)	..	5	42	4ea	..	63	6
..	16 oz	..	46	3	..	..	ampoules 5 mils ..	..	25	200	0ea	..	300	0
● Metercal (826 MJ)	3½ lb	34	8ea	..	..	..	2 mils ..	.. 10	..	..	..
Milton (849 MA)	..	..	..	..	..	..	Corr. Triominic (1303 Wander)	..	..	250	..	..	..
A antiseptic ..	..	3 oz	15	9	..	..	tablets ..	..	36	5ea	..	..	54	7 pls7
A	..	8 oz	27	0	..	..	..	..	..	..
A	..	16 oz	38	3	..	..	Corr. Velocity (379 Dixer)	..	..	..	
Corr. Monastery (856 MH) herbs	10	8	2	8	1	4	powder cream ..	.. jar	19	2	9	7	3	
Corr. Murine (1113 S&B)	dropper bottle ..	33	6	8	4½	4	skin food ..	.. tube	12	0	6	0	2	
Corr. Nivea (1155 S&N) creme	363	27	0	13	6	6	Delete Vespral (1176 Squibb) emulsion all sizes	..						
● Nulis (1037 Reckitt) cream	10	1	4	11	1	7	Corr. Vikelp (1113 S&B) No. 1	..	15	11	3	11½	2	
Oliver's (911 WO)	..	..	..	..	..	..	No. 2	..	31	10	7	11½	4	
..	bathing caps waterseal ..	19	0	1	2	..	No. 3	..	61	3	15	3½	8	
..	bracket racing cap ..	17	6	1	1	..	Vykmin (1113 S&B)	..	..	..	..
..	latex undercap ..	8	0	..	6	1	capsules ..	..	42	9	..	..	4	
Corr. Oxydent (1113 S&B)	denture cleanser ..	..	12	10	3	8½	..	78	9	..	..	8	9	
..	..	23	10	5	11½	3	..	144	0	..	..	16	0	
Corr. Pacquins (1113 S&B) hand cream	mauve label ..	..	17	1	8	2	A Weetmeet (1175 SPL)	..	..	..	..
..	..	30	0	15	0	8	No. 1 ..	..	10	1	..	..	1	1
..	red label ..	..	17	1	8	7	No. 2 ..	..	10	1	..	..	1	1
..	..	30	0	15	0	7	Wendy (786 Macdonald)	..						
..	..	..	..	..	..	..	R baby pants floral nylon N70	..	55	4	..	..	6	11
..	..	..	..	..	..	..	Delete nylon film ..	.. N30	..	..	..	..
Corr. Williams (1113 S&B)	luxury shaving cream ..	..	..	..	..	..	Williams (1113 S&B)	..	18	4	4	7	2	
..	shaving stick ..	..	..	..	..	..	..	22	8	5	8	2	11	
..	refill ..	..	..	..	..	..	..	11	0	2	9	1	5½	

AMENDMENTS TO KEY TO SUPPLIERS :

(95 Baxter) = BAXTER LABORATORIES, LTD., London Road Trading Estate, High Wycombe, Bucks, High Wycombe 4612.

(822 McEwan) = LEONARD McEWAN, LTD., 28 Orsman Road, London, N.1. Shoreditch 7754.

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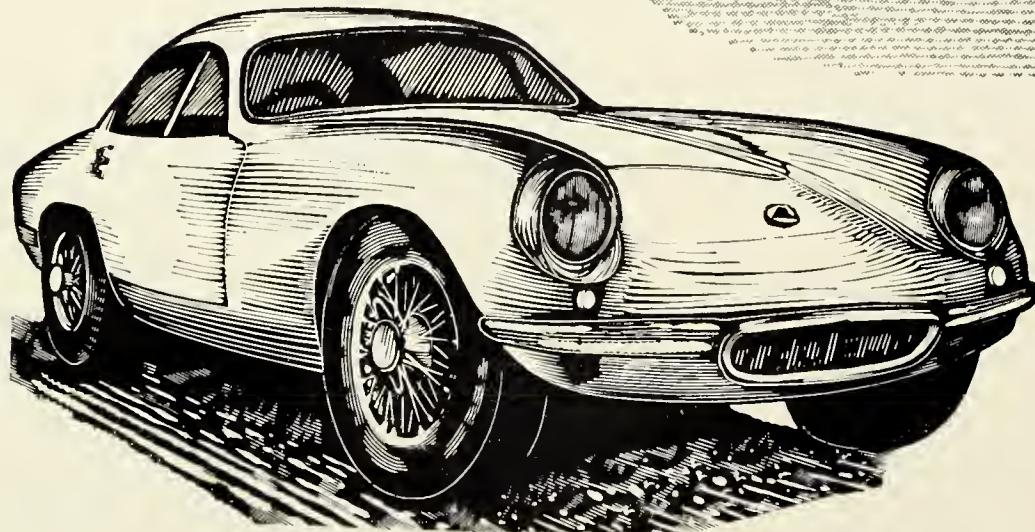
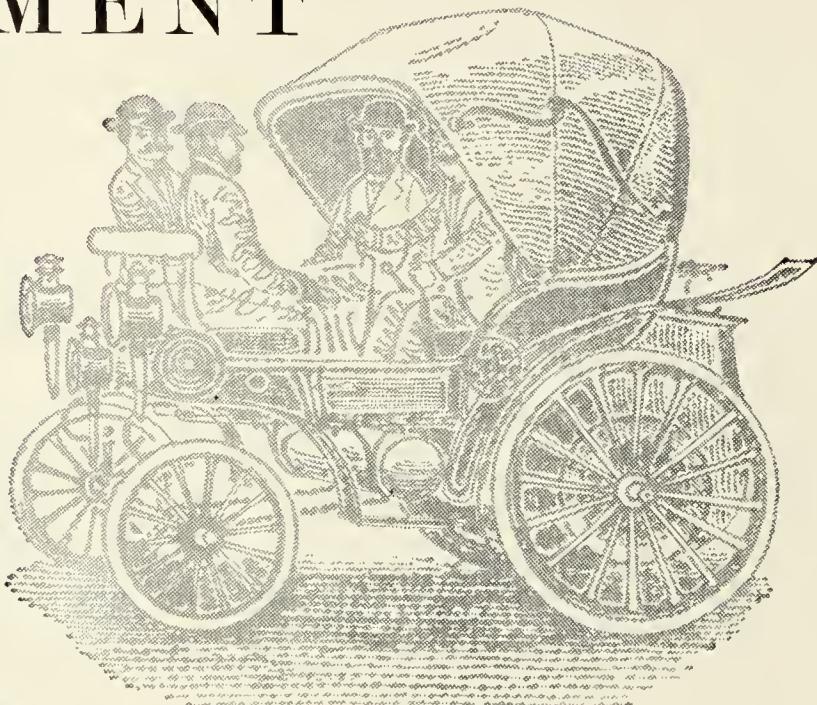


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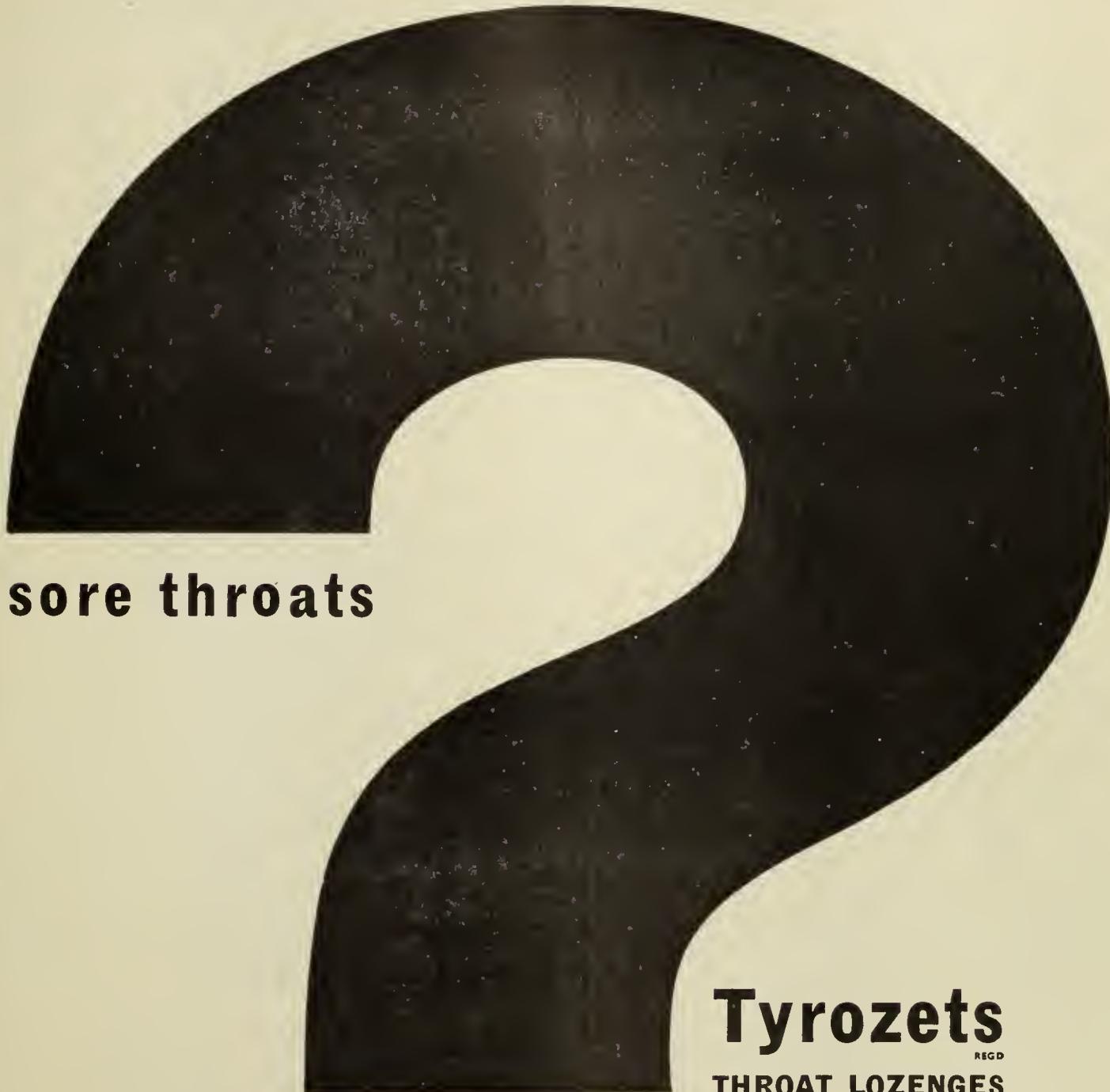
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Color-Match

trade mark

an absolutely harmless liquid colouring as easy to use as successful Color-Glo

Here is the
first advertisement
(Approx.
½ actual size)

COLOR-MATCH colours grey hairs to match the rest of the hair —without changing its natural basic colour. It appeals to an entirely new market. It can double your hair colouring sales.

There are some eleven million women in the country with grey hairs in their head. The vast majority do not like them, and would jump at the opportunity of concealing them, if they could be assured of doing it easily, quickly, harmlessly and without changing the natural basic colour of their hair. COLOR-MATCH does all this.

COLOR-MATCH has overcome all the obstacles that have so far retarded the market for colourings to conceal grey hair. It needs no skin test, is as simple to use as a shampoo, is semi-permanent, lasts through 6-8 shampoos, and leaves the hair in beautiful condition.

A self-lathering liquid, it colours the grey hairs to match the natural hair colour, without changing the basic shade of the hair. If the hair is dark brown it stays dark brown, if it is light brown it stays light brown, except that the grey hairs will have been coloured to match the shade of the rest of the hair.

COLOR-MATCH is certain to create an entirely new hair colouring market, from which you will earn big new profits. It has behind it the same brilliant research, the same marketing insight and sales know-how that have made Color-Glo the most successful and biggest-selling hair colouring in the country.



Made in six beautiful shades of brown

Dark Brown
Dark Warm Brown
Mid-Brown
Mid-Warm Brown
Light Brown
Light Golden Brown

Retail Price 5/6d per bottle.

Trade Price 33/-d per doz.

Purchase Tax at 50%—16/6d per doz.

Retail Profit Margin 16/6d per doz.

Over 13,000,000 women to see this COLOR-MATCH advertising now appearing in WOMAN WOMAN'S OWN EVERYWOMAN WOMAN & BEAUTY MODERN WOMAN SUNDAY EXPRESS

Make sure you have a complete range of Color-Match shades to meet the immense demand.

Keep that Youthful Look in Your Hair with natural-as-natural Color-Match

by L'OREAL



Naturally colours-in those Stray Grey Hairs

without changing your own colour

THIS IS FOR YOU, the lively beauty-conscious woman of today, who has zest and enthusiasm for life, and who wants to keep her looks as young as her personality.

COLOR-MATCH is a wonderful new product by L'Oréal of Paris—so quick and pleasant to use as a shampoo, yet natural colours-in those stray grey hairs, whether they are a few or many, so they blend invisibly into the natural colour of your hair, without changing your personal hair colouring.

COLOR-MATCH is not a hair dye, but something entirely new and different, which actually adds the colour to suit your own individual hair colouring. If you are light brown hair you stay light brown, if you are medium brown you stay medium brown, if you are dark brown you stay dark brown. But what were grey hairs will now match in perfectly with the colour of the rest of your hair.

COLOR-MATCH on 't rub off on pillows, hats or clothes, and is unaffected by water. The effects last through 6-8 shampoos, so should you not want to go on using COLOR-MATCH, its effects will fade pleasantly and naturally, leaving your hair as it was before.

An absolutely natural result

Your closest friend will not know you have used COLOR-MATCH. Natural and safe results. COLOR-MATCH is completely harmless. Indeed, it is actually good for your hair, improving its condition, giving it shine and softness and making it wonderfully easy to manage. COLOR-MATCH does not in any way affect permanent waving.

As quick and easy as a shampoo!



Color-Match is so simple to use. You just lather it on like a shampoo, leave 15 minutes, and rinse off.

You need not worry about concealing your hair with color. COLOR-MATCH is safe and easy to use, that if you can shampoo your hair you can use COLOR-MATCH. And COLOR-MATCH results never very always you will get that natural-as-natural look, and perfect matching in of few or many grey hairs.

How to choose your shade of Color-Match

Choose the shade nearest your own hair colour. If in doubt, choose one shade lighter than your natural colour.

DARK BROWN DARK WARM BROWN
MID-BROWN MID-WARM BROWN
LIGHT BROWN LIGHT GOLDEN BROWN

Color-Match

"Matches-in" those stray grey hairs

Effects last through 6-8 shampoos

A creation of L'OREAL PARIS The World's Greatest Makers of Hair Beauty Products



5/6 per bottle

Your wholesaler has supplies or you can order direct from GOLDEN LIMITED, 7, Grosvenor Street, London, W.1



**HOT
WATER
BOTTLES**

1961

Forward Ordering *Builds up Profits!*

up to
10 % DISCOUNT
for Ordering
before
JUNE 30th



Sell a Good Hot water Bottle Sell...





WHAT YOU GAIN BY- FORWARD ORDERING

**By Ordering by JUNE 30th You can secure
for yourself up to 10% EXTRA Discount**

Order "SUBA-SEAL" Hot Water Bottles now (and certainly before 30th June) to earn yourself 10% Extra Discount this year by making use of the "Suba-Seal" Forward Ordering Bonus. Select from the range below to earn yourself UP TO 71% on cost on "SUBA-SEAL" HOT WATER BOTTLES for all orders of £20 or more. Look at the range . . . look at the profit you can earn by ORDERING NOW. 71% Forward Ordering Bonus only is allowed on orders valued at £10 and over (retailers' invoice value); 5%

Forward Ordering Bonus only is allowed on Carriage Paid orders.

FORWARD ORDERING BONUS applies only to orders placed for the "SUBA-SEAL" range of Hot Water Bottles on or before June 30th, 1961. But you will not be invoiced for these goods until the month chosen by you for delivery. Forward Ordering by you means forward planning of production by us, and only by this means are these discounts made possible.

**Order NOW . . . and pay after delivery . . .
and we deliver only when YOU Choose..up to Dec. 31st 1961**

THE **SUBA-SEAL** RANGE includes the following from which

to make your choice !

STREAMLINE

GAYWARM

COMET

SUBA-LUXE

GIANT

SUBA FLORA

STANDARD (with Handle)

WARMLINE

PENNANT

SUBA LUXE COT

STREAMLINE COT

BEAR CUB

DOG TOBY

FATHER BEAR

SUBA PLASTIC

SUBA BED AIRER

NURSERY RHYME COT



FIRSTS

1st Hot Water Bottles on P.A.T.A. List.
1st to introduce rebates on price reductions.
1st to pack Hot Water Bottles individually
1st to Nationally advertise Hot Water Bottles
1st with the Good Housekeeping "SUBA-
SEAL" Guarantee
1st to give firm discounts to retailers and
wholesalers
1st to give forward ordering discounts
1st to supply Point-of-Sale Aids.

**Extensive Advertising
AUTUMN & WINTER 1961
will help you move your
stocks. Be Prepared !**

"SUBA-SEAL" will move off your shelves
quickly because of the extensive advertising
which will take place in the Autumn
and Winter of this year.
You must be prepared
by ORDERING NOW.

NATIONALLY ADVERTISED

**Sell
a
GOOD
Hot water Bottle - Sell . . .**



WILLIAM FREEMAN & CO. LIMITED SUBA-SEAL WORKS STAINCROSS BARNSLEY YORKS.

Woman	Red Star	Mirabelle	True Romances
Womans Own	<i>buto</i>	Queen	Photoplay
Womans Mirror	Secrets	Everywoman	Womans Story Mag.
Womans Weekly	<i>heaviest</i>	Modern Woman	True Magazine
Womans Realm	Family Star	<i>ever</i>	Sincerely
Womans Day	<i>campaign</i>	She	Honey
Womans Illustrated	My Weekly	Womans Journal	Vanity Fair
Marilyn	<i>for</i>	Woman & Beauty	Flair
Valentine	Romeo	<i>1961</i>	Weekend
Roxy	Bliss	Vogue	Tit Bits
Red Letter	Marty	True Story	



BIOMETICA LTD.

As a result of extensive clinical tests, Dutton & Reinisch Limited announce a most important new class of FUNGICIDAL and BACTERIOSTATIC substances, based on Undecylenic-alkanolamides. Far milder on the skin than halogenated phenolic derivatives, and of far lower toxicity, these substances are highly effective against fungus infections such as athlete's foot as well as the yeastlike fungi associated with Dandruff. In having outstanding fungicidal properties allied to bacteriostatic characteristics these products offer a new weapon to the formulating chemist in his search for the most effective compositions.

THE NEW
FUNGICIDAL
and
BACTERIOSTATIC
AGENTS

**LORAMINE U.
AND
DU. 185**

Undecylenic Alkanolamides

SKIN - FRIENDLINESS

LOW TOXICITY

- * Highly fungicidal and bacteriostatic
- * Far better tolerated by the skin than halogenated phenolic derivatives
- * Skin substantive
- * Compatible with soaps and detergents
- * Perfume compatible and a perfume fixative
- * Simple in formulations
- * Patents applied for

DUTTON & REINISCH LIMITED

Specialists in Amides.

130-132 CROMWELL ROAD, LONDON, S.W.7

Tel : FREmantle 6649 & 7777
TELEX 23254

Telegrams and Cables:
CONDANOL LONDON



1961

Forward Ordering

Builds up Profits!

up to
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for Ordering
before
JUNE 30th



Sell a Good Hot water Bottle Sell...





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Woman	Red Star	Mirabelle	True Romances
Womans Own	buto	Queen	Photoplay
Womans Mirror	Secrets	Everywoman	Womans Story Mag.
Womans Weekly	heaviest	Modern Woman	True Magazine
Womans Realm	Family Star	ever	Sincerely
Womans Day	campaign	She	Honey
Womans Illustrated	My Weekly	Womans Journal	Vanity Fair
Marilyn	for	Woman & Beauty	Flair
Valentine	Romeo	1961	Weekend
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- * Simple in formulations
- * Patents applied for

DUTTON & REINISCH LIMITED

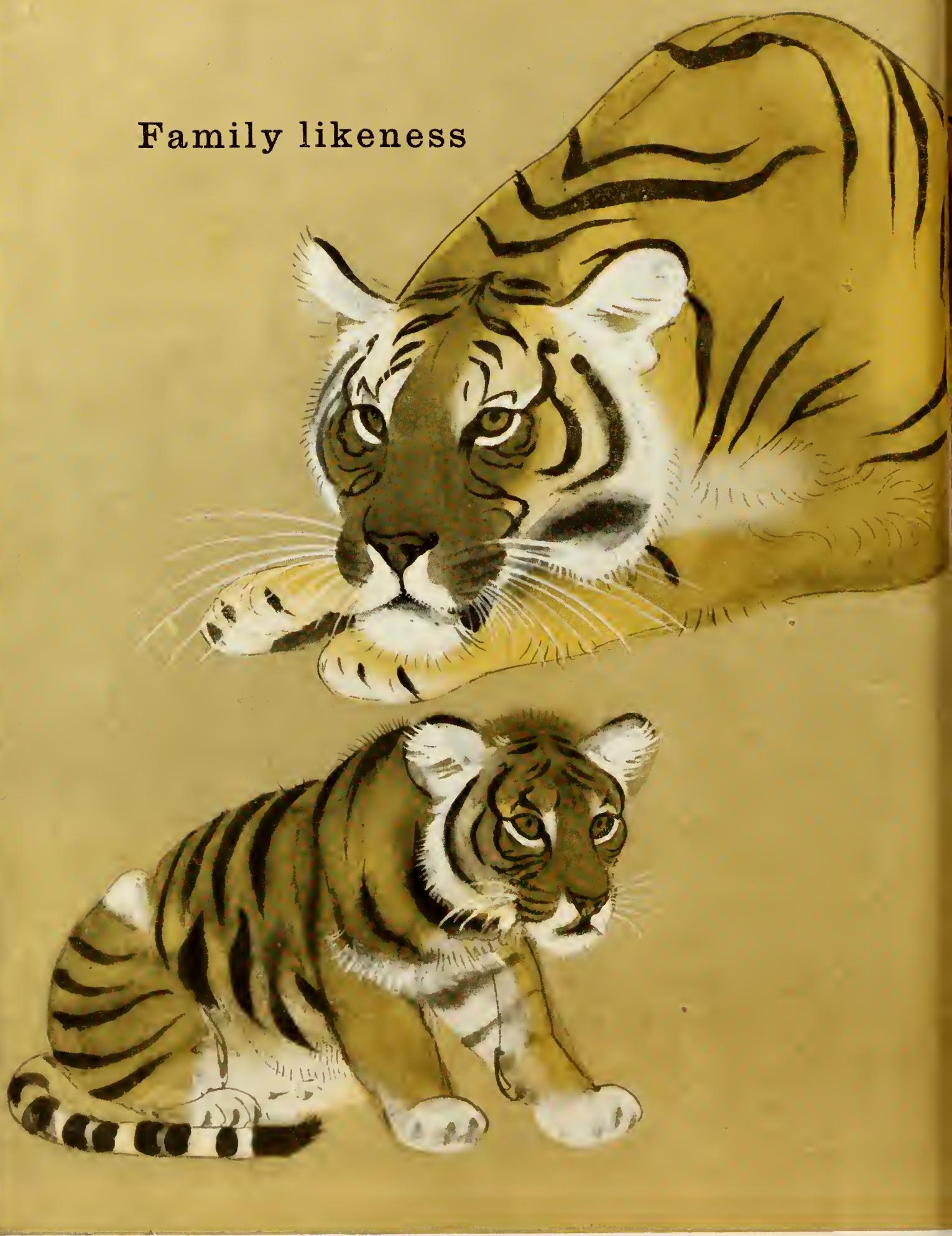
Specialists in Amides.

130-132 CROMWELL ROAD, LONDON, S.W.7

Tel : FREmantle 6649 & 7777
TELEX 23254

Telegrams and Cables:
CONDANOL LONDON

Family likeness



PHA 1744



Every family has its own characteristics by which it is easily recognized: the M&B "family" of fine pharmaceuticals is known throughout the world for dependability. To maintain our high standards, every chemical manufactured undergoes strict analytical control in all stages of its production. That is why you can place complete confidence in M&B brand pharmaceutical chemicals.

Further information is available on request.

THE RANGE INCLUDES:

BARBITURATES · BISMUTH SALTS · BROMIDES · CAFFEINE
AND PREPARATIONS · CHLOROFORM · CITRATES · COCAINE
AND SALTS · ETHER SOLVENT · IODIDES · MERCURIALS
OPIATES · SULPHONAMIDES · THEOBROMINE AND PREPARATIONS
THEOPHYLLINE AND RELATED COMPOUNDS

M&B for fine pharmaceuticals

From Dr. J. BROWN
12 NORTH ROAD
HATBURY
TELEPHONE 402

*R. Elastic Yarn Stockings
2-way stretch*

*In a case like
this... dispense
BURSON*

Burson Stockings, made exclusively on special knitting looms, are the product of many years' intensive research into the making of surgical stockings.

Always dispense and recommend Burson 2-Way Stretch Hosiery and ensure your customers' complete satisfaction. The quality—finish—colour and durability of Burson Hose make them the first choice of those who appreciate the best. Burson Stockings are fully fashioned and virtually indiscernible in use.

Burson Stockings are advertised in the Medical Journals and in a strong list of National Weekly Newspapers and Women's Magazines.

AVAILABLE FREE ON REQUEST WITH BURSON STOCKINGS:—

- *Instruction Chart with details for measuring, fitting and exact adjustment to fit and tension.*
- *Individual Measurement and Order Forms.*
- *Instructions for mending and washing.*
- *Illustrated leaflets for your customers.*

BURSON

**TWO-WAY STRETCH HOISIERY
IS MADE FROM LASTEX YARN**

Your clients may well prefer these wonderful Burson Nylon Stockings, made on the identical, exclusive machines which have made Burson leaders in their field, and which can now be dispensed under the N.H.S.

*Sole Distributors:—FASSETT & JOHNSON LTD
86 CLERKENWELL ROAD, LONDON, E.C.1*

Also at 6 CROW STREET, DUBLIN

**Burson is the registered trademark of the Kendall Company
Boston, Mass., U.S.A.*

**For more than 100 years
CAMTHOL**
has been recommended
for COUGHS & COLDS



CAMTHOL LINCTUS

The Cough mixture for Adults

CAMTHOL PASTILLES

In tins suitable for pocket and handbag

CAMTHOL VAPOUR RUB

Incorporating the finest Essential Oils

BONUS—Thirteen to the dozen on all orders

	Retail	per doz
CAMTHOL LINCTUS	3/- per bott. inc. P.T.	Cost 27/6
CAMTHOL PASTILLES	1/9 per tin inc. P.T.	Cost 14/11
CAMTHOL VAPOUR RUB	1/9 per jar inc. P.T.	Cost 14/11

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LONDON, E.C.3

MEGALON LIVER EXTRACTS

*Crude and Refined Injectable in bulk,
ampoules and vials. Oral Tonics and
concentrated pastes for oral preparations.*

**INJECTIONS
and
TABLETS**

*to B.P. B.P.C. and B.Vet.C. specifications
or to private formulations.*

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**ANTIGEN LTD., ROSCREA,
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BEXLEY KENT**

*TEL. CRAYFORD
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ADVERTISING MUST CREATE

Be sure of satisfying your customers requests. Display VELOUTY POWDER CREAM on your counter NOW

PRICES :—

TUBES : No. 2	No. 3
TRADE : 8/- doz.	13/2 doz.
RETAIL : 1/4 each	2/3 each
JARS	
TRADE : 19/2 doz. RETAIL 3/3	

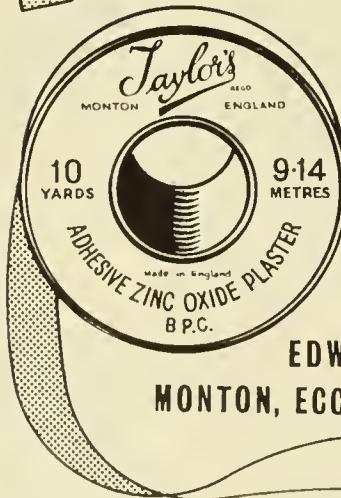
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DIXOR LTD.
ST. LEONARD'S RD. MORTLAKE, LONDON. S.W. 14

make
a good
regular
profit
with

Jaylor's
REG. N° 501079

ZINC OXIDE PLASTER



TF 229

**Neutral
Innocuous
Preservatives
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PARAHYDROXYBENZOATES

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NIPA ESTER Combination '82121'

ESTERS

*Prompt
personal
service
always
at your
disposal*

NIPA LABORATORIES LTD
TREFOREST INDUSTRIAL ESTATE, PONTYPRIDD, GLAM.
Telephone: Treforest 2128/9 Sole Distributors for the U.K.
P. SAMUELSON & CO., LTD.
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another good line
for the chemist..

*Cleans
away
unsightly
stains
from the
hands*



*Easily
removes
NICOTINE · FRUIT · VEGETABLE
INK and TYPEWRITER INK and other
stains from hands, fingers and nails.*

★ packed in attractive display outers each
containing six jars : 21/- Per dozen
+ P.T. 50%
Retailing at 3/6d

Maria St. George LTD.

*Sole Manufacturers of
Instant NAIL DRY
Spray.*

12 PHILLIMORE TERRACE, W.8. Tel: WESTern 6534

A new money spinner!

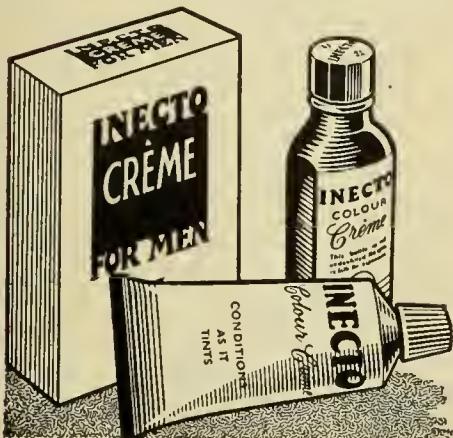
INECTO

CRÈME FOR MEN

First again! Inecto, the leading manufacturers in the field of hair colouring, are now the *first* to announce a range of permanent tints specially created for men. Designed to give complete coverage to grey or white hair, Inecto Creme for Men is already much in

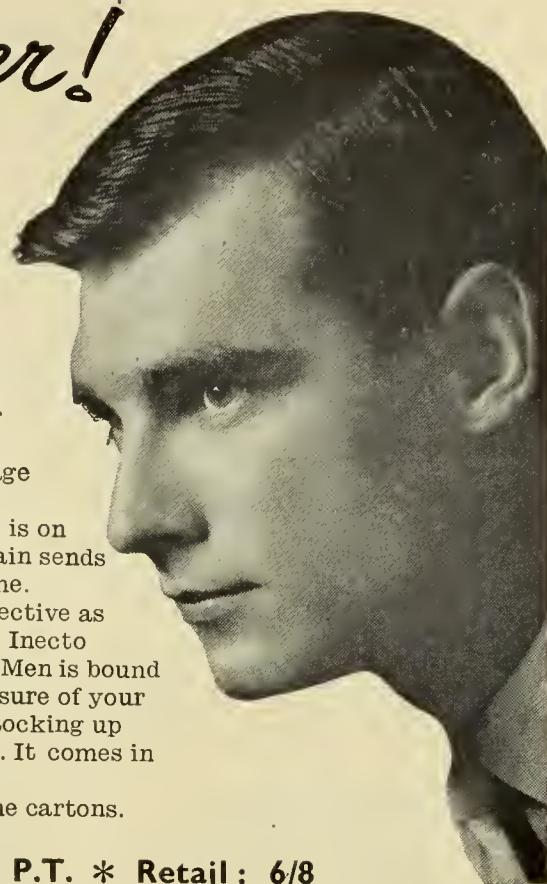
demand in an age whose accent is on youth but whose stress and strain sends many men grey before their time.

As simple to use, as reliably effective as that tried-and-tested favourite, Inecto Creme for the ladies, Creme for Men is bound to be a sure-fire success. Make sure of your share in this *new* business by stocking up with Creme for Men right away. It comes in six sensible shades, packed in eye-catching and very masculine cartons.



Wholesale: 5/- inc. P.T. * Retail: 6/8

Advice Bureau: INECTO HOUSE, 27 DOVER STREET, LONDON, W.I. HYDe Park 7541



DRUGS AND MEDICINAL PREPARATIONS



Drugs and medicinal preparations manufactured in the USSR have won the world acclaim. At present, V/O "Medexport" exports more than 500 items of various medicinal preparations. The quality of these preparations is fully equal to the requirements of the State Pharmacopoeia of the USSR.

The following medicinal preparations developed in the Soviet Union have been universally recognized: Shostakovskiy Balsam, Vaccine of Margoulis-Shubladze, Fosarbin and a number of other medicinal preparations.

Soviet drugs and medicinal preparations may by right be considered to be the best in the world.

Reference books are available immediately on request.

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V/O Medexport Smolenskaja-Sennaja, 32/34 Moscow G-200 USSR
Telephone: G-4-22-84

The
CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS

Telephone: CENtral 6363

Address Box Number Replies to : THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON W.C.2

Specially spaced Advertisements, including :—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 20/- per $\frac{1}{2}$ inch minimum and pro rata. Box 2/-. Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Agencies Wanted, Miscellaneous, 20/- for 36 words minimum; then 6d. per word. Box 2/-. Situations Vacant, 15/- for 36 words minimum, then 6d. per word. Box 2/-. Situations Wanted, 4/- for 18 words minimum then 3d. per word. Box 1/-. Specially displayed advertisements with rule all round, 50/- per inch minimum.

ORRIDGE & COMPANY

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL
BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

PREMISES FOR SALE

HERTS COUNTRY TOWN. Double-fronted shop in a very busy parade. No other chemist in area. Three-bedrooms, etc., accommodation. Lease, 15½ years, for sale at a very low premium. Ideal position for pharmacist with progressive ideas or for a firm desirous of expanding. C 3495

APPOINTMENTS

**ASHFORD HOSPITAL,
 ASHFORD, KENT**

Assistant-in-Dispensing

required at the above Hospital. Salary £395 a year by annual increments to a maximum of £535 a year. Applications with names and addresses of two referees should be made to the Hospital Secretary. C 6348

**BARNET GROUP HOSPITAL
 MANAGEMENT COMMITTEE,
 WELLHOUSE LANE,
 BARNET, HERTS**

Locum Tenens Pharmacist

required for duties within this Group of Hospitals from June 1 to September 30. Applications, giving details of experience, etc., should be sent to the Hospital Secretary, Barnet General Hospital, at the above address. C 558

**BARNET GENERAL HOSPITAL,
 WELLHOUSE LANE,
 BARNET, HERTS
 (490 beds)**

Assistant-in-Dispensing

required in this modern and well-equipped pharmacy (Category V hospital). Barnet is terminal of Northern Line (London Transport). Whitley Council salary scale with London Weighting. Applications to Hospital Secretary (Phone: Barnet 7421), with names of two referees. C 6366

**CITY GENERAL HOSPITAL,
 SHEFFIELD, 5
 (Category V Hospital)**

Senior Pharmacist

Applications are invited for the above appointment. Post offers opportunity to gain further experience in all hospital pharmaceutical practice.

Accommodation (for which an appropriate charge will be made) can be made available to a female applicant.

Apply giving full details of age, experience, etc., and the names of two persons for reference, to the Group Secretary, Sheffield No. 1 Hospital Management Committee, "Lyndhurst," Nether Edge Hospital, Sheffield, 11. C 6352

**ASHFORD HOSPITAL,
 ASHFORD, KENT**

Pharmacist

required at the above Hospital. Salary £690 a year by annual increments to a maximum of £920 a year. Applications with names and addresses of two referees should be made to the Hospital Secretary. C 6347

**CENTRAL GROUP HOSPITAL
 MANAGEMENT COMMITTEE**

Senior Pharmacist

for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

**BARNET GENERAL HOSPITAL,
 WELLHOUSE LANE,
 BARNET, HERTS
 (490 beds)**

Pharmacist

required in this modern and well-equipped pharmacy (Category V hospital). Barnet is terminal of Northern Line (London Transport). Whitley Council salary scale with London Weighting. Applications to Hospital Secretary (Phone: Barnet 7421), with names of two referees. C 6365

**CENTRAL GROUP HOSPITAL
 MANAGEMENT COMMITTEE**

Locum Pharmacists

Holiday relief vacancies.
 8th May—13th May
 12th June—1st July

Salary 18 guineas p.w. Applications with full details to Chief Pharmacist, Metropolitan Hospital, London, E.8. C 6363

**CHARING CROSS GROUP OF
 HOSPITALS,
 FULHAM HOSPITAL,
 ST. DUNSTAN'S ROAD,
 HAMMERSMITH, W.6**

Pharmacist

required. Whitley Council salary scale and conditions. Hospital is within 5 minutes' walk of Hammersmith Station. Applications to Secretary. C 6343

**ST. PHILIP'S HOSPITAL,
 SHEFFIELD STREET,
 LONDON, W.C.2**

Urgent. Part-time Pharmacist

Four 4-hour sessions weekly, by arrangement. Apply: Assistant Secretary, St. Philip's Hospital, Sheffield Street, London, W.C.2. C.H.A. 6491. C 6310

184 STRAND, W.C.2
Tel: TEMple Bar 9212/3 & 6340

**CHARING CROSS GROUP OF
 HOSPITALS,**

**FULHAM HOSPITAL,
 ST. DUNSTAN'S ROAD,
 HAMMERSMITH, W.6**

Assistant-in-Dispensing

required. Whitley Council salary scale and conditions. Hospital is within 5 minutes walk of Hammersmith Station. Applications to Secretary. C 6344

**SEAMEN'S GROUP,
 DREADNOUGHT SEAMEN'S
 HOSPITAL,
 GREENWICH, S.E.10**

Locum Pharmacist

required from 17th July—5th August; 14th—26th August; 25th September—30th September. Weekly salary 18 guineas plus hourly rate 12/6 for two overtime sessions of two hours each week. C 555

**ALBERT DOCK ORTHOPAEDIC
 HOSPITAL, E.16**

Locum Pharmacist

required from 28th August—16th September. Weekly salary £20 9s. 6d. Apply, House Governor, Dreadnought Hospital, Greenwich, S.E.10. C 554

**ROYAL FREE HOSPITAL,
 GRAY'S INN ROAD,
 LONDON, W.C.1**

Senior Pharmacist

Applications invited for the above post in the Out-patient Department. Salary £770 to £1,010 per annum plus London Weighting and higher qualification allowance if applicable. Additional payment for evening clinics. Applications with names of two referees should be addressed to the Group Chief Pharmacist. C 6353

**ST. NICHOLAS HOSPITAL,
 TEWSON ROAD,
 PLUMSTEAD, S.E.18**

Locum Pharmacist

required for long or short periods. Salary £18 18s. per week. Apply to Chief Pharmacist (Tel.: WOolwich 1441). C 6355

**UPTON HOSPITAL,
 SLOUGH**

Locum Senior Pharmacist

required 4th April, part-time considered. Applications to Secretary, Upton Hospital, Slough. C 6329

**UPTON HOSPITAL,
 SLOUGH**

Senior Pharmacist

required 1st April. Applications stating age, qualifications and experience to Secretary, Upton Hospital, Slough. C 6330

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EDUCATIONAL**NEW ZEALAND
EDUCATION DEPARTMENT**

Applications are invited for the following positions at the New Zealand School of Pharmacy:—

**SENIOR TUTOR OR TUTOR
IN PHARMACEUTICS**

Applicants should possess a degree or registrable qualification in pharmacy and have had teaching experience. A post-graduate qualification and/or research experience would be an additional advantage.

The appointed will be in charge of all the teaching in pharmaceutics and will be particularly responsible for the teaching of pharmaceutical microbiology.

**TUTOR OR ASSISTANT TUTOR
IN PHARMACOGNOSY**

Applicants should possess a degree or registrable qualification in pharmacy. A post-graduate qualification, teaching or research experience would be an additional advantage. The appointee will be responsible for all the teaching in Pharmacognosy and should also be prepared to assist with the teaching of pharmaceutics.

**SENIOR TUTOR OR TUTOR IN
PHARMACEUTICAL CHEMISTRY**

Applicants should possess a degree or registrable qualification in pharmacy and should preferably have had teaching experience. The ability to teach pharmacology would be an additional advantage.

Salary (operative from April 1, 1961): Senior Tutor in the range £1,515—£1,705.

Tutor in the range £1,260—£1,515 and Assistant Tutor in the range £910—£1,260.

The scales apply to both male and female staff and the commencing salary will depend on qualifications and experience.

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Incidental Expenses: Up to £35 for a single person and £100 for a married man can be claimed to cover the cost of taking personal effects to New Zealand.

Enquiries quoting reference number B11/8/9 should be addressed to the High Commissioner for New Zealand, 415 Strand, London, W.C.2, who will supply further details and application forms.

Completed applications to be lodged with this office not later than April 10, 1961. C 6349

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The person appointed will be responsible for internal degree courses leading to the B.Sc. (Pharmaceutics) degree of The Queen's University of Belfast, and for courses leading to professional qualifications as pharmaceutical chemists. Interest in the development of research projects is desirable and will be encouraged.

Further particulars and forms of application may be obtained from the Principal, College of Technology, Belfast, 1, with whom completed applications should be lodged not later than MONDAY, 10th April, 1961.

CANVASSING IS STRICTLY FORBIDDEN AND WILL DISQUALIFY.

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C 6364

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C 6312

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The Personnel Manager,
The Wellcome Foundation Limited,
The Wellcome Building,
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Candidates should preferably possess pharmaceutical or equivalent qualification/experience, but applicants with a suitable technical background will be considered. Previous experience as a Representative is not essential as a comprehensive training course will be provided. The Company is engaged in extensive research, and the positions will appeal to those who are interested in dealing with members of the medical and pharmaceutical professions. Upper age limit is 40.

All applications will be treated in complete confidence and should be marked BNE when submitting them to:

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A Member of the Pharmaceutical Society, preferably over 27 years of age, with good personal qualities and the ability to mix easily with people both at home and abroad, is required and a knowledge of languages would be an advantage.

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A rapidly expanding wholesaling and agency business dealing in a wide range of pharmaceutical products has a vacancy for a pharmacist preferably aged between 25 and 33. Initially the successful applicant would be employed as an assistant branch manager and there are excellent prospects of promotion for a man who, besides having the necessary professional qualifications, possesses drive and initiative and who displays management ability early in his career. Salary and overseas allowances would be £1,850 or according to qualifications and experience. Overseas terms of service include free medical attention, an initial kit allowance and fully furnished accommodation at reasonable rent and free passages. There is a contributory pension fund. Those interested in this appointment should write immediately giving full personal details to Box C 6350.

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C 438

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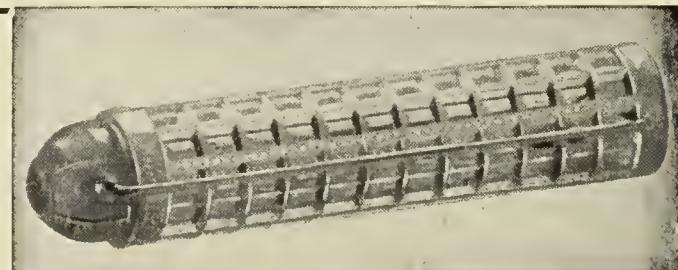
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